

205

<221> misc feature

<222> (934)

<223> n equals a,t,g, or c

<400> 314

```

cttgcggtccc cgcgtgtgtg cgcctaattct caggtgggtcc acccgagacc ccttgagcac 60
caaccctagt cccccgcgcg gccccttatt cgctccgaca agatgaaaga aacaatcatg 120
aaccaggaaa aactcgccaa actgcaggca caagtgcgca ttggtgggaa aggaactgct 180
cgcagaaaga agaaggtggt tcatagaaca gccacagcag atgacaaaaa acttcagttc 240
tccttaaaga agttaggggt aaacaatatc tctggtattg aagaggtgaa tatgtttaca 300
aaccaaggaa cagtgatcca ctttaacaac cctaaagtcc aggcattctt ggcagcgaac 360
actttcacca ttacaggcca tgctgagaca aagcagctga cagaaatgct acccagcatc 420
ttaaaccagc ttggtgcgga tagtctgact agtttaagga gactggccga agctctgccc 480
aaacaatctg tggatggaaa agcaccactt gctactggag aggatgatga tgatgaagtt 540
ccagatcttg tggagaattt tgatgaggct tccaagaatg aggcaaactg aattgagtca 600
acttctgaag ataaaacctg aagaagttac tgggagctgc tattttatat tatgactgct 660
ttttaagaaa tttttgttta tggatctgat aaaatctaga tctctaatat ttttaagccc 720
aagccccctg gacactgcag ctcttttcag tttttgctta tacacaattc attctttgca 780
gctaattaag ccgaagaagc ctgggaatca agtttgaaac aaagattaat aaagttcttt 840
gcctagttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 900
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa gggnggccgt tttaaaggaa ccaggttt 958

```

<210> 315

<211> 500

<212> DNA

<213> Homo sapiens

<400> 315

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cgattgaaca ggagaagcaa gcaggcgaat cgtaatgagg cgtgcgccgc caatatgcac 60
tgtacattcc acaagcattg ccttcttatt ttacttcttt tagctgttta actttgtaag 120
atgcaaagag gttggatcaa gtttaaatga ctgtgctgcc cctttcacat caaagaacta 180
ctgacaacga aggccgcgcc tgcccttccc atctgtctat ctatctggct ggcagggaag 240
gaaagaactt gcatgttggt gaaggaagaa gtgggggtgga agaagtgggg tgggacgaca 300
gtgaaatcta gagtaaaacc aagctggccc aaggtgtcct gcaggctgta atgcagttta 360
atcagagtgc catttttttt tttgttcaaa tgattttaat tattggaatg cacaattttt 420
ttaatatgca aataaaaagt ttaaaaactt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
gcggccgctc gaattaagcc 500

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<210> 316

<211> 1228

<212> DNA

<213> Homo sapiens

<400> 316

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ggcacgagct cgtgccgctt gcaactccac ctcagcagtg gtctctcagt cctctcaaag 60
caaggaaaga gtactgtgtg ctgagagacc atggcaaaga atcctccaga gaattgtgaa 120
gactgtcaca ttctaaatgc agaagctttt aaatccaaga aaatatgtaa atcacttaag 180
atttgtggac tgggtgtttg tatcctggcc ctaactctaa ttgtcctgtt ttggggggagc 240
aagcacttct ggccggagggt acccaaaaaa gcctatgaca tggagcacac tttctacagc 300
aatggagaga agaagaagat ttacatggaa attgatcctg tgaccagaac tgaaatatte 360
agaagcggaa atggcactga tgaaacattg gaagtgcacg actttaaaaa cggatacact 420

```

206

```

ggcatctact tcgtgggtct tcaaaaatgt tttatcaaaa ctcagattaa agtgattcct 480
gaattttctg aaccagaaga ggaaatagat gagaatgaag aaattaccac aactttcttt 540
gaacagtcag tgatttgggt cccagcagaa aagcctattg aaaaccgaga ttttcttaaa 600
aattccaaaa ttctggagat ttgtgataac gtgaccatgt attggatcaa tcccactcta 660
atatcagttt ctgagttaca agactttgag gaggaggagg aagatcttca ctttcctgcc 720
aacgaaaaaa aagggattga acaaaatgaa cagtgggtgg tccctcaagt gaaagtagag 780
aagaccgctc acgccagaca agcaagtgag gaagaacttc caataaatga ctatactgaa 840
aatggaatag aatttgatcc catgctggat gagagagggt attgttgtat ttactgccgt 900
cgaggcaacc gctattgccg ccgcgtctgt gaacctttac taggctacta cccatatcca 960
tactgtacc aaggaggacg agtcactctgt cgtgtcatca tgccttgtaa ctgggtgggtg 1020
gcccgcagtc tggggagggt ctaataggag gtttgagctc aaatgcttaa actgctggca 1080
acataataa aatgcagctc attcaatgaa tttctgccta tgaggcatct ggccccgtgt 1140
agccagctct ccagaattac ttgtaggtaa ttctctctct catgttctaa taaacttcta 1200
cattatcacc aaaaaaaaaa aaaaaaaaaa 1228

```

<210> 317

<211> 1731

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1661)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1726)

<223> n equals a,t,g, or c

<400> 317

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gcaatctttt tctctcctgg ttaaattgggg ctgttgatca ttttctctac gtaaggggaat 60
ttattgatta agtttaatta atttgatata gactgtcatg tagtgatgta gtgctatact 120
gtagtcggaa gtttttctta aaagcaaaga gcaaaaatgc aaagttttat ttgtaaaagc 180
tgaggaccct tggggatgga ttaggtttgc cgatgatcct aaaagtaagc aaactgtatg 240
acaagactac tattgcaaat gaaggatatt tatagctaaa ctgcgcacac aaaagaagtt 300
ttatatgtg agttatagtt ggttcagaaa acagtttgta ctctccctgg cccaggaagg 360
cacacagaca aaaatgtcgg ccacttttac tcaaatcacg cccaagcaca gacagtcagg 420
ttcgtgatca tcaccaacat ctgataaaat ctcatggaag gcaatgccat cacagctttg 480
ctcaattact acgaggaaga gacaacaagc atctttcgtg ttgtctcgtc tgattggagg 540
ctgaatagta gatggaatgg ggggacagtg tgcctgggtg gaggaagacg taagatcccc 600
matttggaaa gcatgcccc ctccttttta gtagaagccc atggttgccc tttgccaac 660
tggggaggag gcaatgagcc ttggtggaag gaacctctct gtkgatattt aaagaagtga 720
gggctgtggg tattcattgt tagaaatgcc aatttcactt tgaaaccata gtccaagtct 780
ctaggtttgt agaagggaaa ggaaggaagt ggtcccagtg attctagatc tggttgggaa 840
acttctgcct catgactctg tccttttgag ctttggacag cagcacaaaa cataacaatt 900
tttattttta aacagaccca ttctttttga tcccacagga gctgtgggtg ggtcggccgt 960
agccccggga tgtggtttaa gtggattact gcctagctga gccaaaatgt ttgcttgtac 1020
ctgttggacc actacagcaa accgctgctt acagtgcatt gtgtatttct gtagtactgt 1080
tttgcatttt ccatagagac agaaaacttt gcaagtcaat cactgttgtt cccatggtag 1140
tgtaagaaaa aaaaaaagga aaaagaaaaa aaaaaagaaa accagccaat cattgcgtgt 1200

```

207

```

acagagctaa aaattgtaat taatagagcc tgttgggaaa aaaaagaaaa caactgttgc 1260
ctttttttct tgtataaaaag agaatttatg acaaaattta gctgtgagga atgtgatacg 1320
tgtttatatt tctgaatatg gracaaattg attcatgggg atatatttta atgtaaacta 1380
aatcagggtat gtaaagttgt tttaaaatgg grgactatat aagtaattct ctaaagcttt 1440
agttgggtttg aatatcatca tttcctccat ggtgagcctg cttgtgratt attaagcact 1500
tgtttgcatc ctctgttctt cactcattta tttcttgacg tgtgctatgg acttaatgct 1560
ctttctgtat tgatgaaaag cagtatgtgg gccaatcttt ttataaaaca ctatgcatac 1620
ataaatatta cattgttcat agctttatct gacttatggg nttatacata acattagaat 1680
gagtaagctg tagttgtgtg gacattttat aaaaacaaag gtcccnttcc c 1731

```

<210> 318

<211> 1208

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<400> 318

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cgggtcgacc cacgcgtccg gaaagatcnt ctttaggaat aatagatgat ggtaagttcc 60
actttgggta ttggaaggca agtcattatt actgggtatta gttaaaacac atatcaaag 120
cttgctcttc atcatatata tagttatgca tacatacaca cacacacata cagtatattc 180
tttcctcaaa aggggttaaga tgtctaaaat agggacctag aagcttaaca ctatttaagt 240
aaatacagta gaagctcaca aatagatttc tttgcacaat gattttttgc aaaattttac 300
agtaataata atcccaaggc aaatctctcc tgaactgctt tccattccat aattttagt 360
ataattcttg gattccactg ttttctttgg ggaatggaag ttctgaatta aaagccact 420
gtggagatgc tgtggttcat ggaatctctt ccagtgtaat tcagaatcat tggcctagaa 480
agtctctgat atttggaggg gaacaaaaat cactcacaag caatccatga tctatacaca 540
taagcataat ttccttttagt tctagttagt catcagagaa cagtcatgta tgcaagtttt 600
gtgactgaga aatttctgtg cttccaatcc acaatgagat gcatgatttt gttttcatcc 660
catttcccc aagccccgtg aaatcagggg aaatgcgcaa ctgatcgctt aggagagggc 720
ctcgtagtgg cacagctgga gatagtttca aagtctaaac caccagccca tcctgaggaa 780
agcctcctat ggaatgtaaa gtgcaatcat ttcttcagat ataagacttt cccaacaat 840
gtgattggat tcctttatgg caaaatcgag agaagctgcc atccacctgc ttatgcattt 900
atctcttttg tggacttgtc tgaccacctt ctatttgccc agagtttgct caattccaag 960
acagtgccca tgaatgggac acctgtaatg taaccacac agcgggtttg agagaatgtt 1020
agccatgact tgggctttct gaaagttggc tataatttct ctatccctac ccacaaccct 1080
gggaagttag agcaagaggg gcatactatt gggctgggag gatttgacag catttcccc 1140
gttgcccttt aagttcttct atttcaaagc ttaattttgc ttctctttct aaaaaaaaaa 1200
aaaaaaaaa 1208

```

<210> 319

<211> 756

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (30)

208

<223> n equals a,t,g, or c

<400> 319

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ccccagtctt accactctag catgcttgn ataataaaca tgggtgagtga cttttttcta 60
aagatcccc ctctctcaga ggtcatgtcc tttcgtaacc agcccttgct cttgaacccc 120
cakgcagttt ggtgggttatg ccaaggaagc agactacgta gcacaagcca cccgtctgcg 180
tgctgccctg gagggcacag ccacctaccg gggggacatc tacttctgca cgggttatga 240
ccctcccatg aagccctacg gacggcgcaa tgagatctgg ctggtgaaga catgagtgc 300
ccactgaacc aagaacttac tgggaagtgtg cctctgtgtc tccttctctg ggggtaagga 360
ggggacagtg cttcccaagt tccagctgca agtccaactt aaccaacttt cttcaaagt 420
cagttactgc caattttctg aaaaaagcat gttccatata ctaagtctct tttctcacgg 480
taggaaataa tacagccaag atatgcagca tccttctcat tgatgtagaa aattctgcga 540
tagaccagaa aaatcctggc agcttttctc caggcatctg ggtcactaaa aactgatttt 600
ctaaaattat tggatttgta ttttgttatt aagggggaaa atgtgatttg tgctgatct 660
ttcatctgtg attcttataa gagctttgtc ttcagaaaaa ctaaaaataa aaggcattga 720
cttaaacagc tgaramaaaa aaaaaaaaaa aaaaaa 756

```

<210> 320

<211> 1209

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1203)

<223> n equals a,t,g, or c

<400> 320

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cttcgccgtc atccgcttcg aaagcatcat ccacgagttc gaccctgggt ttaactatag 60
atcaacacat catcttgcat ctcattgggt ctatgaattt ttaaattgggt ttgatgaaa 120
agcatgggat ccactaggaa gaatagtagg tggtagtgtt taccagggt tgatgataac 180
cgctggcctt attcattgga ttttaaatac attgaacata actgttcaca taagagacgt 240
atgtgtgttc cttgcaccaa ctttttagcgg ccttacatct atatctactt tcctgcttac 300
aagagaactt tggaaaccaag gagcaggact ttagctgtgt tgttttattg ctattgtacc 360
aggctacata tctcggtcag tagctggatc ctttgataat gaaggcattg ctatttttgc 420
acttcagttc acatactatt tatgggtaaa atctgtaaaa actgggtcag ttttttggac 480
aatgtgctgc tgcttatcct atttctatat ggtctctgct tgggggtgggt atgtatttat 540
catcaatctt attccactgc atgtatttgt gttgttactg atgcagagat acagcaaaaag 600
agtctacata gcatatagca ctttctacat tgtgggttta atattatcaa tgcagatacc 660
ttttgtggga ttccagccaa tcagaacaag tgaacacatg gcagctgcag gtgtctttgc 720
attgctgcaa gcttatgctt tcttgagta tctgagagac cgattaacaa aacaagagtt 780
ccagaccctt ttcttttttg gtgtatcact agctgcagggt gctgtgttcc ttagtgtcat 840
ctatttgact tatacagggt acattgcacc atggagtggt aggttttatt cattgtggga 900
tactgggtat gcaaaaaaac acattccaat tattgcatca gtgtctgagc atcaaacctac 960
gacttgggtg tctttcttct ttgatctaca tattcttgta tgtaccttc cagcaggcct 1020
ttggttctgc atcaaaaaata tcaacgatga aagartatgt ggtaagagag gtttttaatt 1080
actactttga tatggaatag ttatttttct ttttgagatt atttacttta aatttttggt 1140
tttctatgtt tgactctata tattcaagat aaattttctc ctttattttg cataggtgct 1200
tanccaaga 1209

```

<210> 321

209

<211> 668
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (653)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (654)
 <223> n equals a,t,g, or c

<400> 321
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 ctggatgatg tttatgacgg gtacgtaaat ttctgaagrt tctttcttcc aaaacatggt 120
 gaatttgtac aacttctctg ccaagggttat ggctgaccag ctccgcaagc ctcccagccg 180
 agaccagtgg agcatgaccc cccagacagt gaatgcctac taccttccaa ctaagaatga 240
 gatcgtcttc cccgctggca tcctgcaggc ccccttctat gcccgcaacc accccaaggc 300
 cctgaacttc ggtggcatcg gtgtgggtcat gggccatgag ttgacgsatg cctttgatga 360
 ccaaggggcg gagtatgaca aagaaggga cctgcggccc tgggtggcaga atgagtcctt 420
 ggcagccttc cggaaccaca cggcctgcat ggaggaacag tacaatcaat accagggtcaa 480
 tgggggagagg ctcaacgggc gccagacgct gggggagaaac attgctgaca acgggggggt 540
 gaagctgcct acaatgctta caaagcatgg ctgagaaaagc atgggggagga gcagcaaytg 600
 cagccgtggg ggttamcaac caccastytt ctctgtggga ttgccccag gtnntggtgc 660
 tcggtccg 668

<210> 322
 <211> 809
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (372)
 <223> n equals a,t,g, or c

<400> 322
 ggctgcagga attcggcacg agtgttaggg taaaaagtga attaaagcaa caggactatt 60
 tataaaataa ttagatttag aaagcagtcg tagaaatata agcctggagt tgctcttgaa 120
 ttacatattt aacaaacctt gaagctaaat cagtttgtct tttatcaaaa ctgcaactcc 180
 tctaagttga aagcacagtg acaagagaaa gcattacaaa ttcttgagaa ataatagaaa 240
 ttaaagctct tttcaaacct gtgaacaagt atagtaccag aagtataaga ttcagatagg 300
 cccaagttgt agttcttggt atgagtcctt caaccctatg gactttggac aaattacttc 360
 tctgcgtctg tntcctcatc tgtaaaatga aaataatttc tgtttcatac aggtatagtc 420
 taaataggga taattacacc tacttcaaag ttgtaaaata cacaattaca actagatagg 480
 aggtataagt tctagtgttc tgtagcactg taggatgact atagttaaca atattgtata 540
 gtttcaaata gctagaagaa ggatattgca tgttcccaaa acaaagacat aagtttttga 600
 gatgatagat atgctaatta ccctaatac tatatgttat atgtattgca acatcactat 660
 gtacccccat aaatatgtac agttattgtg tattaaaatt tttttaaact aaaattataa 720

210

gacattaaaa aaaggtatca catgtaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 780
aaaaaaaaaa aaaaaaaaaa tcgagggggg 809

<210> 323
<211> 1442
<212> DNA
<213> Homo sapiens

<400> 323
ggcacgaggt tccctatcct gggccagttc tctcgcaggt cccagatgtc cagttccaga 60
tgccctggacc cagagtgtgg gggaaatata tctggagaag ccctcactcc aaaggctgtc 120
caggcgcaat gtggtggctg cttctctggg gagtccctcca ggcttgccca acccggggct 180
ccgtcctctt ggcccaagag ctaccccagc agctgacatc ccccggttac ccagagccgt 240
atggcaaagg ccaagagagc agcacggaca tcaaggctcc agagggcttt gctgtgaggc 300
tcgtcttcca ggacttcgac ctggagccgt cccaggactg tgcaggggac tctgtcacag 360
tgagctgggg atgggggggg tcccggcagg actgtggcca gggagattcc cgggggttgtg 420
ggaagtggcg gtgccctgaa tccccatctt ggaggaggga tgaattttcc atgtaggggc 480
agtcgggctt ggcttaccgg ggagcagtggt tggacccag gacacagcct cccaccagcg 540
cctccggggc tgccatctgg gccccacaga gcaaagaggg cagcaagcag gccctgcgtt 600
tggaaggctt atgaatggac acacaaatct tgcaaatact tggagccagg ggcagggacg 660
cacatattgg ttgttaaaaa tatgtcatca tgtatttgtt gagtgcctgc tctatcaggt 720
gaggaagctg gacacaaata ataacaaaag attaatgtac cgttcacact taccttggaa 780
gagctattac aaaactttct acgcccaggc cttattcaga ataaggacat tttaaaaaca 840
gtacttgatg gagtgtatga agcttgcatg cccagcagta tagtcaggag actgaggctg 900
gaggatcaga gggctggagc ccagggttca aggccagcct aagcaacata gcaagacccc 960
atctcaaaaa taagtaaata ataaataaaa ataaaaagag cacattatct tttgatttaa 1020
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taattattat ggatacataa tagttgtaag acttttttgt ttttaattaa agttttctaa 1140
ggctggggcg agtagctcat gtctgtatgc ccagcacttt gggaggctga ggcgaaagaa 1200
gcacttgagc ccaggaattt gagaccagcc tgggcaacat agcaagaccc catctctaca 1260
aaaaaattta aaaatttagc aagtgtgggt gcacgcacct gtggtcccag ctacaagggg 1320
cgctgaagtg agaggatcac ttgagcctgg aaggtagagg ctgcagtgag ctctgatcat 1380
gacaccgtac tccagcctgg gtgacagagt gagaccctgt ctccaaaaaa aaaaaaaaaa 1440
aa 1442

<210> 324
<211> 2701
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<220>

211

<221> misc feature
 <222> (17)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2699)
 <223> n equals a,t,g, or c

<400> 324
 ncattcatnt tttcaangct cgtgatctca cggccccggct gccggccccc gctctgccct 60
 gcagcataat aaaatggcta atcaggtgaa tggtaatgcg gtacagttaa aagaagagga 120
 agaaccaatg gatacttcca gtgtaactca cacagaacac tacaagacac tgatagaggc 180
 aggccctcca cagaagggtg cagaaagact tgatgaaata tttcagacag gatttggttagc 240
 ttatgtcgat cttgatgaaa gagcaattga tgctctcagg gaatttaatg aagaaggagc 300
 tctgtctgta ctacagcagt tcaaggaaaag tgacttatca catgttcaga acaaaagtgc 360
 atttttatgt ggagttatga agacctacag gcagagagag aaacagggga gcaagggtgca 420
 agagtccaca aagggacctg atgaagcgaa gatcaaggcc ttgcttgaga gaactgggta 480
 tactctggat gtaaccacag gacagaggaa gtatggtggt cctccaccag acagtgtgta 540
 ctctggcgtg caacctggaa ttggaacgga ggtatttgta ggcaaaatac caagggattt 600
 atatgaggat gagttggtgc ccttttttga gaaggccgga cccatttggg atctacgtct 660
 tatgatggat ccactgtccg gtcagaatag agggatgca tttatcacct tctgtggaaa 720
 ggaagctgca caggaagccg tgaaactgtg tgacagctat gaaattcgcc ctggtaaaca 780
 ccttggagtg tgcattttctg tggcaaacaa cagacttttt gttggatcca ttccgargaa 840
 taagactaaa gaaaacattt tgggaagaatt cagtaaagtc acagagggtt tgggtggacgt 900
 tattctctat catcaaccgg atgacaaaaa gaagaatcgg gggttctgct tccttgaata 960
 tgaggatcac aagtcagcag cacaagccag acgccggctg atgagtggaa aagtaaaagt 1020
 gtggggaaat gtagttacag ttgaatgggc tgaccctgtg gaagaaccag atccagaagt 1080
 catggctaag gtaaaagttt tgtttgtgag aaacttggct actacggtga cagaagaaat 1140
 attggaaaag tcattttctg aatttggaaa actcgaaaga gtaaaagaagt tgaaagtggg 1200
 kgccgctcmt kagaactagt ggatcccccg ggctggcagg attwcggcac gagaatgaat 1260
 ggcaaaagaaa tagaagggga agaaattgaa atagtcttag ccaagccacc agacaagaaa 1320
 aggaaagagc gccaaagctgc tagacaggcc tccagaagca ctgcgtatga agattattac 1380
 taccaccctc ctccctcgcat gccacctcca attagaggctc ggggtcgtgg tgggggggaga 1440
 ggtggatatg gctaccctcc agattactac ggctatgaag attactatga tgattactat 1500
 ggttatgatt atcacgacta tcgtggagge tatgaagatc cctactacgg ctatgatgat 1560
 ggctatgcag taagaggaag aggaggagga aggggagggc gaggtgctcc accaccacca 1620
 agggggaggg gagcaccacc tccaagaggt agagctggct attcacagag gggggcacct 1680
 ttgggaccac caagaggctc taggggtggc agagggggct ctgctcaaca gcagagaggc 1740
 cgtggttccc gtggatctcg gggcaatcgt gggggcaatg taggaggcaa gagaaaggca 1800
 gatgggtaca accagcctga ttccaagcgt cgtcagacca acaaccaaca gaactggggg 1860
 tcccaacca tcgctcagca gccgcttcag caaggtgggtg actattctgg taactatggg 1920
 tacaataatg acaaccagga attttatcag gatacttatg ggcaacagtg gaagtagaca 1980
 agtaagggct tgaaaatgat actggcaaga tacgattggc tctagatcta cattcttcaa 2040
 aaaaaaaaaa ttggcttaac tgtttcatct ttaagtagca ttttgctsec atttgtattg 2100
 ggctgaagaa atcactattg tgtatatact caagtctttt ttttttccct cttttcataa 2160
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 gtatggagta tgctgtaaat aaaaatacaa gctagtgctt tgtcttagta gttttaagaa 2400
 attaaagcaa acaaatttaa gttttcttgt attgaaaata acctatgatt gtatgttttg 2460

212

```

cattcctaga agtaggttaa ctgtgttttt aaattgttat aacttcacac ctttttgaaa 2520
tctgccctac aaaattttgtt tggcttaaac gtcaaaagcc gtgacaattt gttctttgat 2580
gtgattgtat ttccaatttc ttgttcattg aagatttcaa taaaactaaa aaatctattc 2640
aaaaaaaaaa aaaaaaaatg accctcgaga aaaaaaaaaa aaaaaaaaaa aaaaaaana 2700
a                                                                 2701

```

<210> 325

<211> 1070

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<400> 325

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ggatgcagaa ttttgtcttt ttgacctgtg tgtaaattgtg agagaaaact tctcagttcc 120
agttggcctt cgaggcacca tcataggaat aaaaggagct aatagagaag ccgatgtact 180
atltgaagta ttatttgatk wagaatttcc tggaggggta acaataagat gctcacctgg 240
tagaggttat cgactgccaa caagtgcctt ggtgaacctt tctcatggga gtcgctctga 300
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ytcaagttca tcagtttcct ctgggcattt gggarccctc aaccattccc ctcaatcact 420
ttttgttcct actcaagtac ctactaaaga tgatgatgaa ttctgcaaca tttggcagtc 480
cttacaggga tctggaaaga tgcaatactt cgagccaact atacaagaga aggggtgcagt 540
tctacctcaa gaaataagcc aagtaaatac acatcataaa tctggcttta atgacaacag 600
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tcagcctaaa caaaataaga aattagcatt ttatatgaac aagcctcaca gtgctaata 1020
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```

<210> 326

<211> 1729

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (125)

<223> n equals a,t,g, or c

<400> 326

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cgttttcttt ttggctgcca gaggcccccg catccaccgc tgagctggga gaaagatggc 120
ggcancgtgc gacaggattt ggcccagctc atgaattcga gcggctctca taaagatctg 180
gctggcaagt atcgtcagat cctggaaaaa gccattcagt tatctggagc agaacaacta 240

```

213

```

gaagcttttga aagctttttgt ggaagcaatg gtaaattgaga atgtcagtct cgtgatctctg 300
cggcagtttgc tgactgattt ttgcacacat cttcctaact tgcctgatag cacagccaaa 360
gaaatctatc acttcacctt ggaaaagatc cagcctagag tcatttcatt tgaggagcag 420
gttgcttcca taagacagca tcttgcatct atatatgaga aagaagaaga ttggagaaat 480
gcagcccaag tgttggtggg aattcctttg gaaacaggac aaaaacagta caatgtagat 540
tataaactgg agacttactt gaagattgct aggctatatc tggaggatga tgatccagtc 600
caggcagagg cttacataaa tcgagcatcg ttgcttcaga atgaatcaac caatgaacaa 660
ttacagatac attataaggt atgctatgca cgtgttcttg attatagaag aaaattcatt 720
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ctttttcttt aaacagagggt gaaatatctg tggctaaaaa gtttgagatt tgtgataact 1620
ttgtagtcat gtaaaactta agtgcttcat gcctctccaa atgtggttat tctaataaat 1680
ggagaaatga gccaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1729

```

<210> 327

<211> 686

<212> DNA

<213> Homo sapiens

<400> 327

```

ggcacgagca tgagccactg caccagccg atactactat atccccattt tacagatgag 60
cacatgggca aattgagggg aaggcactga cccatgatca tacagctgag aagtggcaaa 120
ggcaggattt gaacctagaa cctctggctc cacacactag taatctaaac cactctccct 180
acaatacaac atacgtggta aagatgtgtg gtgggcacgc aatcaacgta ggtcccttca 240
cagttgctgg gagaggcagg aatttgacgt tcctccgctg tctctctctc cgtgccccac 300
ctgtcctggg tcattcctgc agcctgcctt gccctgcctg gtctcaccct cctctgcca 360
acagaagtct gggcagggtt ttatgggctc tgataaggcc ctggcagggc cgaagttcat 420
gagcacttcc tctttgcagg agggcgtagg ggaggggacc caggtgattt gggctcctggc 480
tggtcaccag ggaagctggc aagggaagg agactagggt gcgctctagg agaagccgac 540
agcctgagag tcccagaaga ggagccctgt ggaccctccc ctgccagcca ctcccttacc 600
ctgggtataa gagccaccac cgctgccaat ccgccaccat ctcccactcc tgcagctctt 660
ctcacaggac cagccactag cgcagc 686

```

<210> 328

<211> 1241

<212> DNA

<213> Homo sapiens

<400> 328

214

```

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ctgcagctcg cttcaagatg gccgcttgct cgcattcatt ttctgctgaa cgacttttaa 120
ctttcatgtt cttttccgcc cgcttcgacg gccctcsgcc ggctgctctt tccgggattt 180
tttatcaagc agaaatgcat cgaacaacga gaatcaagat cactgagcta aatccccacc 240
tgatgtgtgt gctttgtgga ggggtacttca ttgatgccac aaccataata gaatgtctac 300
attccttctg taaaacgtgt attgttcggt acctggagac cagcaagtat tgtcctatct 360
gtgatgtcca agttcacaag accagaccac tactgaatat aaggtcagat aaaactctcc 420
aagatattgt atacaaatta gttccagggc ttttcaaaaa tgaaatgaag agaagaaggg 480
atttttatgc agctcatcct tctgctgatg ctgccaatgg ctctaataga gatagaggag 540
agggttcaga tgaagataag agaattataa ctgatgatga gataataagc ttatccattg 600
aattcctttg ccagaacaga ttggatcgga aagtaaaca agacaaagag aaatctaagg 660
aggaggtgaa tgataaaaaga tacttacgat gcccagcagc aatgactgtg atgcacttaa 720
gaaagtttct cagaagtaaa atggacatac ctaatacttt ccagattgat gtcattgatg 780
aggaggaacc tttaaaggat tattatacac taatggatat tgcctacatt tatacctgga 840
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ccagcaacag ccccgagggt aaccaccaat cttcttttgc caatagacct cgaaaatcat 1140
cagtaaatgg gtcattcagc acttcttctg gttgatacct gagactgtta agggaaaaaa 1200
aaaaaaaaa accccggccg ctcccacttc agattggtaa c 1241

```

<210> 329

<211> 1652

<212> DNA

<213> Homo sapiens

<400> 329

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tctgactgga ctttctatta gctcaactcc accagctgtc agtagtggtc tcagtacagg 60
tgtaccaaca gtaccgttat tgccaccaca agtaaaccag tccctcactt ctgtgccacc 120
aatgaatcca gctactacat taccaggtct gatgccttta ccagcaggac tgcccaacct 180
ccccaacctc aacctcaacc tcccagcacc acacatcatg ccaggggttg gcttaccaga 240
acttgtaaac ccagggtctgc cacctcttcc ttccatgcct ccccgaaact tacctggcat 300
tgcacctctc cccctgccat ccgagttcct cccgtcattc ccttggttc cagagagctc 360
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gccccccact gccaaaggccc ccaccaccgt tgaggacaga gtcggcgact ccacccagct 540
cagcgagaag cctgtttctg cggctgtgga tgccaatgct tctgagtcac cttaactttg 600
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ctatcattaa tttcatacta gtttgtagcg tatctgtagg catcctgtaa ataattccaa 720
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tgcctaatac tcacacgcaa catctcttgt actttgtaag tcgtttgcga gaatgcagac 1020
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aatcactcag acaacatttt gtaactgctg ctgttgcttt ctacatacac cttataaagt 1260
gacatttcaa aagaaataag gtgccacagt tttaaaccag aagggtggc tctgtggctc 1320
cttgtagtat tatagctata ctgggaaagc atagatacag caataaagta cagtaatttt 1380

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215

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acttttttttc ttgtgtttaca tctaaattac aacccttaat tgccacgtgt gcacttacta 1440
ctctccagta tgtcttatta ctctccagta tgtcacgcat ctttaacttt tcacgtccta 1500
tgtttgcttt ctcccatttt taagagatgg taagttaact ggaattgatt tactgaatga 1560
aattaaatgc agatatccct gtttttgaaa taaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1620
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 1652

```

<210> 330

<211> 1916

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1895)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1902)

<223> n equals a,t,g, or c

<400> 330

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agctgaaaaat atatgagcag gtgacattga ggtttactga aatagccaat ttgactggtg 120
cttagactat tgtgcagtaa acctaaaagg tagtggagaa ttgcttcctg ctagcaggaa 180
gccttcatct tcttgagtac ccaaaccagg cttcagggtgt cctttgagga tagccagggt 240
tgaaattttt agttttctcag gaagagctct tctatgtggc aggggctgat agggcaaaat 300
aaaatgacaa tttcttttatt gctacagagt atcctctata agttattaaa cgagtgtaat 360
ggtataatgc ctttccatca cacaacagga caccacccca gttttgtttt ctgggtttct 420
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gttacagatg gcgtagaagt cacaagtcct ttaattggac tgttgcttct ttgcctgttc 600
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tttttttgta attatatgaa gaaagtccag ttctcataaa tattgatcac ttaaaaaact 1620
tactctttct tgaaaaggta cacatgtaaa atttaggaaa ataactaaag taggggctgg 1680
aaccataaga agaattgtta tcagcacgtt catttattat tttggatttg gaacttggct 1740

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216

```

ttgtttttca atagtgacaa gaatgggttca gttctaggaa tgttctggaa gatgctgtta 1800
attttacttt aaaatgagaa tctgggtgtta ctgtatttta tcgttttcaa taaaacttct 1860
taagtgtttt ggaaaaaaaa aaaaaaaaaa aattnctgcg gnccgcaagg gaattc 1916

```

```

<210> 331
<211> 1658
<212> DNA
<213> Homo sapiens

```

```

<400> 331
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ccccgcggcg cggccgcagg gccatgctag ccttgccgct ggcgcgcggc tcgtggggggg 180
ccttgccgcg cgccgcttgg gctccgggaa cgcggccgag taagcgascg cctgctgggc 240
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tggggccccg cgagcaccac cagcctgtat gaaaacccat ggacaatccc gaatatgttg 480
tcaatgacga gaattggctt ggccccagtt ctgggctatt tgattattga agaagatttt 540
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gctcgaaact gggccaatca aagatcagct ttgggaagtg ctcttgatcc acttgctgat 660
aaaatactta tcagtatctt atatgtttagc ttgacctatg cagatcttat tccagttcca 720
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taccgaactc ttccaacacc acgaacactt gccaaagtatt tcaatccttg ctatgccact 840
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attaacagtt catgtaatta atacckgatc atttgggata atgaaagtga agtttagttgt 1560
agatgaagta aagttataaa agagattaaa aatgatcagg tattaattac atgaactgtt 1620
aatgaatcca ggttccaata tcaacaaaca ttgctatg 1658

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<210> 332
<211> 1102
<212> DNA
<213> Homo sapiens

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<400> 332
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cagagtggaa gcaggtgtga gaggggtccag cagaaggaaa catggctgcc aaagtgtttg 120
agtccattgg caagtttggc ctggccttag ctgttgccagg aggcgtgggtg aactctgcct 180
tatataatgt ggatgctggg cacagagctg tcatctttga ccgattccgt ggagtgcagg 240
acattgtggg aggggaaggg actcattttc tcatcccggt ggtacagaaa ccaattatct 300
ttgactgccg ttctcgacca cgtaatgtgc cagtcacac ttgtagcaaa gatttacaga 360

```

217

```

atgtcaacat cacactgcgc atcctcttcc ggccctgtcgc cagccagctt cctcgcattct 420
tcaccagcat cggagaggac tatgatgagc gtgtgctgcc gtccatcaca actgagatcc 480
tcaagtcagt ggtggctcgc tttgatgctg gagaactaat caccagaga gagctggtct 540
ccaggcaggt gagcgacgac cttacagagc gagccgccac ctttgggctc atcctggatg 600
acgtgtcctt gacacatctg accttcggga aggagttcac agaagcgggtg gaagccaaac 660
agggtggtca gcaggaagca gagagggcca gatttgtggt ggaaaaggct gagcaacaga 720
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cactggccac tgcaggggat ggccctgatcg agctgcgcaa gctggaagct gcagaggaca 840
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agccccgatg attcttaaca cagccttcct tctgctccca cccagaaat cactgtgaaa 1020
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aaaaaaaaacc ccgggggggg gc 1102

```

<210> 333

<211> 4201

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (4077)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4161)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4186)

<223> n equals a,t,g, or c

<400> 333

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cctcccgcct ctgctgccgc tgccgccctg agtcaactgcc tgcgcagctc cggccgcctg 120
gctccccata ctagtcgccg atattttggag ttcttacaac atggcagaca ttgacaacaa 180
agaacagctct gaacttgatc aagattttgga tgatgttgaa gaagtagaag aagaggaaac 240
tggtgaagaa acaaaaactca aagcacgtca gctaactgtt cagatgatgc aaaatcctca 300
gattcttgca gcccttcaag aaagacttga tggctctggt gaaacaccaa caggatacat 360
tgaaagcctg cctagggtag ttaaaagacg agtgaatgct ctcaaaaacc tgcaagttaa 420
atgtgcacag atagaagcca aattctatga ggaagttcay gatcttgaaa ggaagtatgc 480
tgttctctat cagcctctat ttgataagcg atttgaaatt attaatgcaa tttatgaacc 540
tacggaagaa gaatgtgaat ggaaaccaga tgaagaagat gagatttcgg aggaattgaa 600
agaaaaggcc aagattgaag atgagaaaaa ggatgaagaa aaagaagacc ccaaaggaa 660
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acacgatgaa cctattctga agcacttgaa agatattaaa gtgaagttct cagatgctgg 780
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aaataaagac aaaacttgaa gtaactgaaa atcttatcgt gctatgtaga aatattgaac 4020

```

219

```

taatattcaa atatttgaat gctttggttt cagggattgg tttaaaattg gagtcnnttt 4080
tttatggggg tagtcttaca aaaatttaag cttttatatt tttgacttta aatcaaaaacc 4140
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c 4201

```

```

<210> 334
<211> 1239
<212> DNA
<213> Homo sapiens

```

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<400> 334
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ggcgtgcaaa aactaacatt gaaattttga aacagcagca gagtgagtgg attttatttt 180
tcgttattgt tgggtggttta aaaaattccc cccatgtaat tattgtgaac accttgcttt 240
gtggtcactg taacattttg ggggtgggac agggaggaaa agtaacaata gtccacatgt 300
ccctggcacc tgttcagagc agtgtgcaga atgtaatgct cttttgtaag aaacgtttta 360
tgatttttaa aataaattta gtgaacctat ttttgggtgt catttttttt ttaagacagt 420
cattttaaaa tgggtggctga atttcccaac ccacccccaa actaaacact aagtttaatt 480
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gcaaacttag ttctgggtgat ttcttgatgg tttggaagtc tattgctggg aagaaattcc 600
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```

```

<210> 335
<211> 1249
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (36)
<223> n equals a,t,g, or c

```

```

<400> 335
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caaaattggt aagaaatggt agtgggtggg ctgatctgac tgcagccatc ggtaaaataaa 120
agtttttgat cctgttgaac ccgcctgaga cgggtgctgtg aggggaaagc cttccgcacc 180
cacacaggaa ttctgctgag gtcccccttc cttccggcca atggcagaag tgggggaaaa 240
tttttagaag aaaagcaaac atgtgagacc aatcattatc aaatactttt attttttggg 300
tgagtattta tctttttatt ttttattttt ttttttgaaa gaatgtcttg gaatgcgcaa 360
gtctcccttt agagccgtct tttgcaggga gcgggaagtg acaagagctc agatctccct 420

```

220

```

ccccgatctcc ctccccacct ccgaagtctc ctccgtggac cacaggtgga tctttgtgcg 480
aacaacttgc atttcggaag ccaactgtccg tctttaaaca gaaagtcgaa ggagccacga 540
agcaagcggc cgtccgggcg tccgyctgcc gtccccctcc atgttcctcc tcttccttcg 600
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tttctgtctt ccaacctcta ctgtaaactt tctggtccga gaacgagccg aacacagcgc 720
gacgcagggg ctaggacggc ccggtgaccg cgcggattca ggattgcggg gacgcagaaa 780
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tggcaatatt tgccgtgtag aatttttttt agatatccat tgtaaatttg aaacaaagac 960
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tgtgtatttt ttctataaaa aagaacaaaa ataaaaatgt ataacatttg tacatggcct 1200
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```

<210> 336

<211> 722

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (690)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (703)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (718)

<223> n equals a,t,g, or c

<400> 336

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ggcttaaatg tgattcttga tactgtttta agtatttagg ttgcaattaa ctttggcaaa 60
gtcagtcgac ataagccctg tggatatggc cttatgtaca ctgtaatgca gacaggtgct 120
tttcatcatt catgtaacat tctcacacag ttgaggrrat tcactctctc accaattcca 180
gattgtraat gtacywtctt aaacaactct tgagggtcacc aaacagtagt tatttgactg 240
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ctgcctgcaa agaattaaca tccgtctagt gggagaaaaca aacacacccc actcactaag 360
tatggaaaac tgattctggtg aggaagcaga aatgtcccta gataacagca tgtattgcag 420
atacccaaat gtttatttgtt ttctcagccc ttcaattttg cttttctctc tcaaattgcta 480
cagactcaat ttaaattctta cctttgattg ttgaaaaaag tcactaagat gtgaatacag 540
aatagacatt gagagggttat atatgtccaa aactcatctg tccagcagtc accgtcctct 600
tcagagtggg caggttgggc agrtgggcac aggtgctggg gatgcccctc ckggggcaaaa 660
cgccccattt gtggcacttc cagatactan ttatttactt ttnaagagag agacaggntc 720
ac 722

```

<210> 337

221

<211> 2210

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (40)

<223> n equals a,t,g, or c

<400> 337

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accggagcgg cggcgcgctct ggaggaggct gcagcagcgg aagaccccag tccagatcca 120
ggactgagat cccagaacca tgaacctggc catcagcatc gctctcctgc taacagtctt 180
gcagggtctcc cgagggcaga aggtgaccag cctaacggcc tgcctagtgg accagagcct 240
tcgtctggac tgccgccatg agaataccag cagttcaccc atccagtacg agttcagcct 300
gacctgtgag acaaagaagc acgtgctctt tggcactgtg ggggtgcctg agcacacata 360
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cactagcaag gacgagggca cctacacgtg tgcactccac cactctggcc attccccacc 480
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cctgtctggc cagaacacct cgtggctgct gctgtcctct ctctccctct cctcctcca 600
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gttcacagtgc agagatccta cttctctgag tcagctgacc cctccccsc aatccctcaa 720
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```

<210> 338

<211> 741

<212> DNA

222

<213> Homo sapiens

<220>

<221> misc feature

<222> (581)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (656)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (711)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (719)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (720)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (737)

<223> n equals a,t,g, or c

<400> 338

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actcccttca acaaactgcc tgggtctatag gatcttgcctc aaggacctgt tccaggaaac 120
ctctagatgt tcccccttgc ctagecctctg tgaaggcaga aatcactaat ggagtgggttt 180
gccttaataa cctttgtacg tgtaacatcc tgcaatgtat atgatattta gtaggcattc 240
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caagaaatag aagagtcact caggagtcac gggagtgcctg ntggaagggtc aatactcttc 600
ttcaatacat gaccgagaaa ttaggttcaa caatggatgg gtgattaaag attggnaagg 660
ggacttgggt attttaagga aacccccagg tagggatata atcttaatga ngtaaagtgnn 720
tagcactggg ttttgggnatc a                                     741

```

<210> 339

<211> 2045

<212> DNA

<213> Homo sapiens

223

<400> 339

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agtcacgcga cgcagaatc tggccgggtt ctgagcttgt tccgcctccc tcccccgga 120
atggcgctat ccgggtcgac cccggccccg tgctgggagg aggatgagt cctggactac 180
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aaaaa 2045

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<210> 340

<211> 2074

<212> DNA

<213> Homo sapiens

<400> 340

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tgagtgagct gataccgctc gccgcagccg aacgaccgag cgcagcgagt cagtgagcga 180
ggaagcggaa gagcgcccaa tacgcaaac gcctctcccc gcgcgttggc cgattcatta 240
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tgtgagttag ctactcatt aggcacccca ggctttacac tttatgcttc cggctcgtat 360
gttgtgtgga attgtgagcg gataacaatt tcacacagga aacagctatg accatgatta 420

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224

```

cgccaagctc gaaattaacc ctactaaag ggaacaaaag ctggagctcc accgcggtgg 480
cggccgctct agaactagt gatcccccg gctgcaggaa ttcggcacga gcatggttct 540
gcagacgacc aaggggctgc ggcttctctt tgatggcgat gcccacctcc tcatgtccat 600
ccccagcccc ttccgtggac ggctctgtgg cctctgtggg aacttcaatg gcaactggag 660
tgacgacttt gtectgcccc atggctcagc agcgtccagt gtggagacct tcggggctgc 720
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```

<210> 341

<211> 2867

<212> DNA

<213> Homo sapiens

<400> 341

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agcagggtatt actggtacaa atgtagtaaa gaagtgtcag ggaggcagct gttacaccaa 660
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tctccgaagc acatgggaag tgatccgtga ttctgaggac ttaagaaaaa ccatccttat 900
gacaacacag ccaccaaata ccaccttctc attgctgcag attggacaaa gaattgtgtg 960

```

225

```

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```

<210> 342

<211> 2131

<212> DNA

<213> Homo sapiens

<400> 342

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ggcacgagcg gaggaggagc gggcgccatg gcggttctac tggagaccac tttaggcgac 60
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tgcaaaataa aatattacaa ttattgcctt attcacaatg tacagaggga ttttatcata 180
caaaactggcg atcctacagg gactggccgt ggaggagagt ctatcttttg ccaactgtat 240
ggtgatcaag caagcttttt tgaggcagaa aaagtcccaa gaattaagca caagaagaaa 300
ggcacagtggt ccatggtgaa taatggcagt gatcaacatg gatctcagtt tcttatcacc 360
acaggagaaa atctagatta tcttgatggt gtccatacgg tgtttggtga ggtgacagaa 420
ggcatggaca taattaagaa aattaatgag acctttgttg acaaggactt tgtaccatat 480
caggatatca ggataaatca tacggtgatt ttagatgata catttgatga ccttctgat 540
ttattaatcc ctgatcgatc accagaacct acaagggaac aattagatag tggtcgaata 600
ggagcagatg aagaaattga tgatttcaaa ggaagatcag ctgaggaagt agaagaaata 660
aaggcagaaa aaggaggctaa aactcaggct atacttttgg agatgggtggg agacctacct 720

```

226

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gatgcagata ttaaacctcc agaaaatgta ctgtttgtgt gtaaattgaa cccagtgacc 780
acagatgagg atctggaaat aatattctct agatttgggc caataagaag ttgtgaagtt 840
atccgagact ggaagacagg agagtccctc tgttacgctt ttattgaatt tgaaaaggaa 900
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tycttgatgg acaaattttg gttaatgggt t 2131

```

<210> 343

<211> 559

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (534)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (539)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (556)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (559)

<223> n equals a,t,g, or c

<400> 343

227

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caaaaaataa ataaataaaa ataaaagagt atactcctgg catgcttttt atctgagaag 60
atgtaaaaca gggaaaagaa cttcaggccg ttctctttgt ggctgagttt cattctgcct 120
gcgtggtgac agcagccttg agctctcttg gaattcacat cctgagcagt gtgctaggag 180
gatgcgaggg atgctggtga ctctgctgtg agtttgagct gcttctgcca aaaaactcac 240
gctcaggact cacaccttgt ctatatatttg agttacatay aataaagatt ttttaaaaaa 300
tcacagattc agtgtgtatg aaatttttcta ctcttcacca attctgatga aattcaattc 360
ttcaggaggt tgagttttct ggaacaagcc acctctcttc ccttggagtg tcccatcact 420
tattctagca ctttttcatt ttgttcgaga tgtttgctga agcggagcgg tgctgtgggg 480
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acagaggcaa agaaaancgn                                     559

```

<210> 344

<211> 2623

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2623)

<223> n equals a,t,g, or c

<400> 344

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aagtggcatg accatggatt atttcactgg ttttcttcct cgtagccctt gctctccagc 120
tattgacatc agtgtggagt cagtaattct tttcttagaa gctgaagtta tcatttacag 180
taaatatttgt tttagttctt tgtcatcctt atttacctga agctccttca ggaaaattac 240
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cactctaggc ctgacatgct tgacaggctc tgacgcagga ggtgggagtt cctggccctt 360
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ccacatcatt tggcatcaga gwtgaaaagg atctagggct ggttkttctc agaaccaaga 540
agctttnaaa accagyttgt ggtagccctt cttgagagca gctcagtcct ctcattgggt 600
caytctgacc aatcccagga tgcatagggr cccaggcaaa gcaggcccta gtaagtcctt 660
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taaggaattg ggaatttttag tcttttaagc aaagtttacg aatgaagaaa tgaaggatgg 1380
ccacaagcgt aaggcatatg tcacttgccct ctggacactg gttattttat gtttcagtc 1440

```

228

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ctaaaaaatg aaatggaaaa aagtgggtgct aaatcgagtc agagatatta caggagagtt 1500
ttagagctta ttatttcctg tggccagtgc ttgtcctggc agtaaggcty tccccgttaa 1560
caagccagag ccctccaagg taccagactc ttcttactac acaggtacta acaggctggc 1620
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ctttgaaatg ttcttgtgg atccccattt ctggctcatca agatgtggat gtacatttct 1920
taaaattatt acatgctgca tctttcagcc tggagactgt gcagaaacat gagaggtgat 1980
gacacactaa ttatgggaag cagaattact ggctgatggc ccctgaggct gtgtgtaaca 2040
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aagcctacac ctagcattgc ctacttagcc ccctgaatta acagagccca attgagacaa 2280
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aggctgtgat atattttcct agtggtttga ctttaaaaaa aaataagggt taattttctc 2580
ccccaaaaaa aaaaaaaaaa aaaaaaaaaa aaataaaaaa atn 2623

```

<210> 345

<211> 1843

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1405)

<223> n equals a,t,g, or c

<400> 345

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acagtgattg actacgtgaa gccctcggat ctcaagaagg acatgaacga gaccttcaag 120
gagaagtttc ctcacattaa gctgacactc agcaaaatta ggagtctgaa acgagagatg 180
cggaacttgc gcaggaggac tgtggccttg aggagccac ggtgggcatg gcctcgtcta 240
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ggcatgtgtg ctgttagcag ccagcaaaat ttggaagtga cctcaaaaaa cacgagtcaa 360
gcatttaatt gacaaactgg aagagaagtt ccggctgaac aggcgagaac tgattgcctt 420
tgaattcccg gtgttagtgg ccttggaatt cgccctccac ttgcccagagc acgaagtcac 480
gccccactac agacggctgg tccagagttc ctgacactgg ccccgaggac agccaagggc 540
awtttcttct cagcttgggt gagcagcact tacttactac tggaaatgaa aaaaagtaga 600
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ccctttacag agcagccctt agcctggggc catgggtcag gctgaccttc aacaattatt 1140

```

229

```

tctagatgat ttctggataa gaattgctct ctcggtacca gacagtttga catcctccac 1200
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gaggcatgtc accacactgt cgcctcatag ctgcaagaga gaggcaccag ctgaagtccc 1740
cctgactgaa gagagcctgt ggccatgtaa aaagagaatt aaactcttgt tgctttttgt 1800
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 1843

```

<210> 346

<211> 884

<212> DNA

<213> Homo sapiens

<400> 346

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ggtgtgagcc actgtgcccc gcagtttccc agaatatatt taaatgcaa gttacatgag 60
gggaaaacat gtatgtttgc tcctgttgtt actgggtagg ttctgaacag cagaaacca 120
tgtgcagggg gggctggtga agggccctct ccgcaagggt gtagcaggaa aaggctcttg 180
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caaaataagc catgctgctt tgcacacaca ctagccttct tttgtacttt tcattctgga 420
tgggcttggc caaaacaggc tcaggccaaa gacctccaa gctgtatgta cttccagtat 480
cctgaaacag tgtttggtga cataatgcc agggtaaaca agcctgattt aggcactgct 540
ttatccaggg gcttcacca tgaaattaat aaaacttatc tgagtcactt gaaacttgg 600
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tattccttgat gatgtgttta aactgagtag cagaaaacag aggccacact ttctgggaaa 720
ttttaaagga agaaaccatt tttaatgaga tgaaaatatt taacgaattt aaaaagctaa 780
tgacaatttt gagaaaagg ttgggatgta tattgctatg taatttaata aactgatttt 840
atggatataa aaaaaaaaaa aaaaaaacc tcggggtcgg gggt 884

```

<210> 347

<211> 391

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (381)

<223> n equals a,t,g, or c

<400> 347

230

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aagatgggtgc caccgggtgca ggtctctccg ctcatcaagc tcggccgcta ctccgccctg 120
ttcctcgggtg tggcctacgg agccacgcgc tacaattacc taaaacctcg ggcagaagag 180
gagaggagga tagcagcaga agagaagaag aagcaggatg aactgaaacg gattgccaga 240
gaattggcag aagatgacag catattaaag tgagtgaccc tgcgaccac tctttggacc 300
agcagcggat gaataaagct tcctgtgttg tgtgataaaa aaaaaaaaaa aaaaaacycn 360
gggggggggc ccgwwaccca nttygcccaa a 391

```

<210> 348

<211> 2540

<212> DNA

<213> Homo sapiens

<400> 348

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ggcaggcaac aggaggtcct gaactagcca gttcagtact tagtccccta ttgaataagg 60
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tgggaggaac ttggatgaaa gccagagcag agtggccaaa agaacagttt attccaccat 180
atgttccacg attccgcaat ggctgggagc cccaatgct gaactttatg ggagccacaa 240
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aacaggaaat aaaaagatta tccacagagc attccagtgt atcagagtat catccagccg 360
atggctatgc gttcagtagc aacatttaca caagaggatc ccacctggac caaggggaag 420
ctgctgttgc ttttaagcca acttctaate gccatataga tagaaattat gaaccactca 480
aaacacaacc caagaaatat gccaaatcca agtatgactt tgtagcaagg aacaacagtg 540
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231

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aaaaaaaaa aaaaaaaaaa 2540

<210> 349
<211> 1926
<212> DNA
<213> Homo sapiens

<220>
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<222> (97)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (281)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (302)
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<220>
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<222> (326)
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<220>
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<222> (1879)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1885)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1891)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1892)
<223> n equals a,t,g, or c

<400> 349

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gacaggaaga cttggggcat gggacagctc agactttgta tttaaaagtt aaaaaggaca 1860
aaaaaaaaaa aaaggggcng gccgnttcta nnaggatcca agctttacgt acccgttg 1920
aatgcc 1926

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<210> 350

<211> 1233

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1222)

<223> n equals a,t,g, or c

<400> 350

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acaatggagc aagctgtatc ccattgcaa tggaaataac cagtccccctg ttgatattaa 180
aaccagtga accaaacatg acacctctct gaaacctatt agtgtctcct acaaccagc 240

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233

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cacagccaaa gaaattatca atgtggggca ttccttccat gttaaattttg aggacaacga 300
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ttttcactgg ggcagtacaa atgagcatgg ttcagaacat acagtggatg gagtcaaata 420
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```

<210> 351

<211> 2510

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2503)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2509)

<223> n equals a,t,g, or c

<400> 351

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tcagcctgtc catacagagt gtgcattccc tggcaggggc tctgtctac agcctcgtt 180
ttaaccttct ggaacctgcc aaacagtgcc cagaccaata ttgatgtcgt gccgttcaat 240
gtcgcagaag ggaaggaggt cttcttagta gtccataatg agtcccagaa tctttatggc 300
tacaactggt acaaagggga aagggtgcat gccaaactatc gaattatagg atatgtaaaa 360
aatataagtc aagaaaatgc ccaggggccc gcacacaacg gtcgagagac aatatacccc 420
aatggaaccc tgctgatcca gaacgtcacc cacaatgacg caggawtcta taccctacac 480
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agctccttca atcccatctt ctctgtggc atcactaagt ataagacctg ctctcttct 1020

```

234

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gaagacctat aagctggagg tggacaactc aatgtaaatt tcaaggaaaa accctcatgc 1080
ctgagatgtg ggccactcag agctaaccac aatgttcaac accataacta gagacactca 1140
aattgccaac caggacaaga agttgatgac ttcattgctgt ggacagtttt tcccaagatg 1200
tcccaagcct catcgtgacg aggcctcttat cccactccat ttttccctgc tcatgcctgc 1260
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<210> 352

<211> 2765

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2758)

<223> n equals a,t,g, or c

<400> 352

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aggctgccga gcgggtgagc gcgcaggcca ggccaaagcc ctggtaccgc cgcggtgcgg 180
gcctcagtcct gcggccatgg gggcgctccgc gcggctgctg cgagcgggtga tcatgggggc 240
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ccttcatgag ctgaaaaatc tcaccagta tagctggctg ttggatgggt ttccaaggac 480
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ggagcctctc attcagcgtg aggatgataa accagagacg gttatcaaga gactaaaggc 720
ttatgaagac caaacaagc cagtcctgga atattaccag aaaaaagggg tgctggaaac 780
attctccgga acagaaacca acaagatttg gccctatgta tatgctttcc taaaaactaa 840

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235

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agttccacaa agaagccaga aagcttcagt tactccatga ggagaaatgt gtgtaactat 900
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agaga 2765

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<210> 353

<211> 1755

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (134)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (140)

<223> n equals a,t,g, or c

<400> 353

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236

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gtgggagaaa gtcgcggtccg catcggaggg gaagcgccgt catgcctaag tattatgagg 120
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<210> 354

<211> 1959

<212> DNA

<213> Homo sapiens

<400> 354

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ggaacgggag aaagagctaa atatcgatgt tggttggtgc agcttccatg taggaagcgg 780
ctgtaccgat cctgagacct tcgtgcaggc aatctctgat gcccgctgtg tttttgacat 840
gggggctgag gttggtttca gcatgtatct gcttgatatt ggcgggtggc ttctggatc 900

```

237

```

tgaggatgtg aaacttaaat ttgaagagat caccggcgta atcaaccag cgttggacaa 960
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ccctcagctg ctgaacaagc atttgtagct tgtacaatgg cagaatgggc caaaagctta 1860
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gccgccctag gggttcccaa gtttacgtac gctgcatgg 1959

```

<210> 355

<211> 1067

<212> DNA

<213> Homo sapiens

<400> 355

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aattcggcac gaggtcactg ctggctgagg ctgcgctcag gcccgaggat ctcatcgaag 60
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acaccatgta gagaattttg gtctcgattc agaaaagaga aagagccagt ggttgttgag 180
acagtagaag agaaaaagga acctatccta gtgtgtccac ctttacgaag ccgagcatac 240
acaccacctg aagatctcca gagtctttg gaatcttacg ttaaagaagt ttttggttca 300
tctcttcccta gtaattggca agacatctcc ctggaagata gtcgtctaaa gttcaatctt 360
ctggctcatt tagctgatga cttgggtcat gtagtcccta actccagact ccaccagatg 420
tgcagggtta gagatgttct tgattttctat aatgtcccta ttcaagatag atctaaattt 480
gatgaactca gtgccagtaa tctgcccccc aatttgaaaa tcaattggag ttactaagca 540
attcgggaaga gaaacacatt gaaatcactg tctttccctg agcaaggggg ctgctcatta 600
gatcttttga tactttacca tgtgaaatac taccagaact gttctctaaa cccacttttt 660
ctgtagagga atgtatcatc ttttttttcc tcatattaca aatggacaaa taacggactt 720
tctattttca tatttctgta aaccattttt taaatgaaat taggtcatta tttatgaaaa 780
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atagagttat gcattgcaca tacacaaata aacttttatt agatagatac ctataaaaga 960
aacataaaag tatgttgtgt attactgaca gttctagatt aatttctttt agaattaaag 1020
tagattttgtt aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaa 1067

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<210> 356

<211> 1023

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

238

<222> (996)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (998)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1003)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1016)
 <223> n equals a,t,g, or c

<400> 356
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 ggggtctggag cccccatcct cctgcggcag atgttcgagc ctgtgagctg caccttcacg 180
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 gcgcctcggg atgcccagct gatcaaggag ctggggctgc ggctgctcta tgctgtgaat 300
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 gtccatgaaa agatcttcac acttcaggga gactgtctga tctaccctgc tcacgattac 660
 catgggttca cagtgtccac cgtggaggag gagaggactc tgaaccctcg gctcaccctc 720
 agctgtgagg agtttgtcaa aatcatgggc aacctgaact tgcctaaacc tcagcagata 780
 gactttgctg ttccagccaa catgcgctgt ggggtgcaga caccactgc ctgatctcac 840
 ttctgtcaga tgctcccatc cactattaat gcactagggt ggaggagagg gcggcaatga 900
 cactgcacct ctcccttccc accgcattcc ctggagctcc ctaaataaaa ctttttttaa 960
 cgtgaaaaaa aaaaaaaaaa aaaggggggg ccgctnangg ggntcaaatt ttaggnacgg 1020
 ggg 1023

<210> 357
 <211> 1953
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (45)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (47)

239

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1686)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1821)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1920)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1927)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1935)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1948)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1951)

<223> n equals a,t,g, or c

<400> 357

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gagccgaaga tggcagtgaa cgtataactca acgtcagtga ccagtgataa cctaagtcga 180
catgacatgc tggcctggat caatgagtct ctgcagttga atctgacaaa gatcgaacag 240
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ctacaagcag gttttaagag aatgggtggt gacaaaataa ttctgtgga caaattagta 420
aaaggaaaagt ttcaggacaa ttttgaattc gttcagtggt tcaagaagtt tttcgatgca 480
aactatgatg gaaaagacta tgaccctgtg gctgccagac aagggtcaaga aactgcagtg 540
gctccttccc ttgttgctcc agctctgaat aaaccgaaga aacctctcac ttctagcagt 600
gcagctcccc agaggcccat ctcaacacag agaaccgctg cggtccctaa ggctggccct 660
ggtgtggtgc gaaagaaccc tgggtgtggc aacggagacg acgaggcagc tgagttgatg 720
cagcaggtca acgtattgaa acttactgtt gaagacttgg agaaagagag ggatttctac 780
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240

```

ttcggaaagc tacggaacat tgaattgatt tgccaggaga acgaggggga aaacgaccct 840
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gaagggggcc cacaggagga gcaagaagag tattaacagc ctggaccagc agagcaacat 960
cggaattctt cactccaaat catgtgctta actgtaaaat actccctttt gttatcctta 1020
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gacgtttcac tccttttcca ataagtttga gttaggagct tttaccttgt agcagagcag 1140
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tcccatttta ctggctttta nggttacatt taccaccttt tctcttctct gctcccttgc 1860
ccactggggg actcctcttt tggcctcctt ggaagtttgc tgcttaaaag ttggaaagtn 1920
ccaccangcc aggtngattc catgcctngc naa 1953

```

<210> 358

<211> 2026

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (701)

<223> n equals a,t,g, or c

<400> 358

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cataagggcg gcgagatcag cctcctgtct catctggaag accaccactc tgggggtctca 180
gaggaatgat ggaagccttg gggtttctaa aattggaagt gaatggcccc atggtgacgg 240
tggccctgtc agtggctctc ttggccctcc tgaaatggta ctccacatca gcattctcaa 300
gactggagaa gttaggcctc agacatccca agccttctcc tttcattgga aacttgacat 360
ttttccgcca gggtttttgg gaaagccaaa tggagctcag aaagctgtat ggacctctgt 420
gtgggtacta tcttggtcgt cggatgttta ttgttatttc tgagccagac atgatcaagc 480
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agtcggtagc cgacagcgtt ctgtttttac gtgacaaaag atgggaagag gtcagagggtg 600
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ttcctccaaa tggtcctgga tgcccagacat tctgcaagtc ccatgggcgt gcaagacttt 1080
gacatcgtca gagacgtttt ctctctact ggggtgcaagc cgaaccttc ccggcaacac 1140

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241

```

cagcccagcc ctatggccag gcctttgact gtggatgaga ttgtgggcca ggccttcac 1200
ttcctcatcg ctggctatga aatcatcacc aacacacttt cttttgccac ctacctactg 1260
gccaccaacc ctgactgcca agagaagctt ctgagagagg tagacgtttt taaggagaaa 1320
cacatggccc ctgagttctg cagcctcgag gaaggcctgc cctatctgga catggtgatt 1380
gcagagacgc tgaggatgta cccgccagct ttcagattca cacgggagggc agctcaggac 1440
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gctgaggccc ggcagcagca ccggcccttc acgtacctgc ctttcggggc cggcccacgg 1620
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cacaagttcc ggttccaagc ctgccctgag acccaggtac cgctgcagct agaatccaaa 1740
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aattttgaa aaatgtcact gaagtgattg aaagagtgcc tggcatgcaa ggataagagg 1920
ttctttacat aacatttcct aaatgcttaa taaacgtttg ttgcacttgg ttttgacatt 1980
gccaaaaaaa aaaataagaa gaaaatgaaa aaagttttgc gtcgac 2026

```

<210> 359

<211> 1799

<212> DNA

<213> Homo sapiens

<400> 359

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tcggccgcgc cgccgggggg tgggggggct gcgcgggact tttttttttt tcagactgac 120
cgccggggcag ctgcggagca tgtcgacccc ggcccggagg aggctcatgc gggatttcaa 180
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gcagtggaat gcagttatat ttggaccaga agggacacct tttgaagatg gtacttttaa 300
actagtaata gaattttctg aagaatatcc aaataaacca ccaactgtta ggtttttatc 360
caaaatgttt catccaaatg tgtatgctga tggtagcata tgtttagata tccttcagaa 420
tcgatggagt ccaacatatg atgtatcttc tatcttaaca tcaattcagt ctctgctgga 480
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acgagaatat gagaaaagag tttcggccat tgttgaacaa agctggaatg attcataata 600
gacaactggc ctgttaatct ttttcatcat tgttgtgtat aatttacctc tcattagaaa 660
ggctaacaaa ttttaagtgc cacagggtttt aaggattctg cagaaaaaaa agaaaaaagt 720
ccttcagttt agaacctaca aaagcttctg tatcttgatt aatgtacttt ttattgcatg 780
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ggagggaat cttgggtgtaa cttaaatatt tgaaaattac ctttaatgca atgcataatc 1560
gtttattctg ggaaatgttt taatgccagg gcctgctgag ttgcttcttc ttgtggagat 1620
ttttttttta atctcctgag ttgtataaaa gttgtactgc atcttagttt actggataaa 1680
tttaaaacac agtattgtag aaagctaata caaaactatc ctatgccttc aaatagtata 1740

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242

gaaaatggaa aatatacaag taaattctgt tgaacccaaa aaaaaaaaaa aaaaaaaaaa 1799

<210> 360

<211> 510

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<400> 360

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gaagcataat tyatttttgt atctgtggta acaaaacatt aaccaaaaga ttttctgtcc 120
cagaagcttc cccgaccccc caagctatct gctcacatta acaaattaaa gtgcctgaag 180
cataattcat tctttacctg tatactaaaa accctgttgt attgattttt ttataataag 240
cctttttacc tctgtgtaaa aaatatatat acaagtgtat gatgtacatt ttagttctta 300
actttttttt atggtttcta atatgtatga ccaatgtagc cattgtctta aaatgtaccg 360
tgtaaatata aacacatcct atgcaraaaa aaaaaaaaaa aagggcggcc gctctanagg 420
atccaagctt acgtacgcgt gcatgcgacg tcatagctct tctatagtgt cacctaaatt 480
caattcactg gccgtcgttt tacaacgtcg                               510

```

<210> 361

<211> 1087

<212> DNA

<213> Homo sapiens

<400> 361

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ccaaagtgtc gggattgtgg gcatgagctg ctgtgccag cctccatgtt ttaatatcaa 60
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tggtctcttt tagggttaaga agtttgtgtc tttgtctggc cacatcttga ctagggtattg 180
tctactctga agacctttaa tggcttccct ctttcatctc ctgagtatgt aacttgcaat 240
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aagcaagagt gatatactcc aggacttaga atagtgccta aagtgtctga gccaaagaca 360
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aattgtgtat tttctttggg ggtggaaaag gaaaacaatt caagctgaga aaagtattct 1020
caaagatgca tttttataaa ttttattaaa caattttgtt aaacccaaaa aaaaaaaaaa 1080
aaaaaaaaa                               1087

```

<210> 362

<211> 2273

243

<212> DNA

<213> Homo sapiens

<400> 362

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ctcagctgtc cgcaccgctc gtgccgggac tgcctccgcc actacctgcg cctggagata 120
agcgagagca gggtgcccat cagctgcccc gagtgcagcg agcgactcaa cccgcacgac 180
atccgcttgc tgctcgccga cccgccgctt atgcacaagt acgaggagtt catgctgcgc 240
cgctacctag cctcggaccc cgactgccgc tggtgcccg ccccggaactg cggttatgct 300
gttattgcct atggctgtgc cagctgcccc aagctaactt gtgagaggga aggttgccag 360
actgagttct gctaccactg caagcagata tggcatccaa atcagacatg cgatatggcc 420
cgtcaacaga gggcccagac tttacgagtt cggaccaaac acacttcagg tctcagttat 480
gggcaagaat ctggaccaga tgacatcaag ccatgccac gatgcagtgc atacattatc 540
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tggttttgta tgaaagagat ctcagacttg cattacctca gcccctctgg ctgtacattc 660
tggggcaaga agccatggag ccgtaagaag aaaattcttt ggcagctggg cacgttgatt 720
ggtgtctccag tggggatttc tctcattgct ggcattgcc a ttctgccat ggtcattggc 780
attcctgttt atgttggag gaagattcac agcaggtatg agggaaggaa aacctccaaa 840
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<210> 363

<211> 1848

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (976)

244

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1845)

<223> n equals a,t,g, or c

<400> 363

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<210> 364

<211> 1808

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1808)

<223> n equals a,t,g, or c

<400> 364

245

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gaaatcactg ccagagacag tctattttct ttttaatttg tactacttag tcacaaacct 840
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<210> 365

<211> 1280

<212> DNA

<213> Homo sapiens

<400> 365

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gacagggcaa ggcccagggt gagattgtca ctgatgggga ggagcctgct gagatgatcc 720
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246

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acaaggcaaa tgcccaggcc gcagctctgt ataaggtctc tgatgccact ggacagatga 840
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<210> 366

<211> 2138

<212> DNA

<213> Homo sapiens

<400> 366

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247

attaaaagca attatctttc agatgcaaaa aaaaaaaa

2138

<210> 367

<211> 3179

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2488)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3178)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3179)

<223> n equals a,t,g, or c

<400> 367

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248

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<210> 368

<211> 1826

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1799)

<223> n equals a,t,g, or c

<400> 368

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taaaccacaa caacctgaca gagtctgtgg gccacttcc caaatctctg gaggatctgc 540

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249

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tttctctttg attatttgca tgttatgttt aataagctac tagcaaaata aaacatagca 1740
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<210> 369

<211> 839

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (112)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (179)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (809)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (829)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (831)

250

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (837)

<223> n equals a,t,g, or c

<400> 369

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aagggagaaa ttaatggcaa aacaaaaaat acacaaatct gcggttttgg anttaatgaa 120
acaagattca tctattttaa gaaatggttg tggtctaata caaagcatta ttttactna 180
gagaaaatta cttacttgct cccttctgta ttgtaatat ttgtattaag acatgattta 240
aaatgtcttt ctacccttat ctctctctaaa ctgcaactra agttcaattc ttcacatta 300
gtattttaac tctggcaaag gttatagaaa gaaaaatggr aatatggtag gcctgtggta 360
ttcttaaaag ctaagtcatt agaactatgc agatcccca gtttaaaagt acaawtacag 420
caccagtagt tagcttttcta gctggggggag aagacaggag atttttcttc cacagatgtt 480
tattttgctt cctgatagggt actgcagcaa agccatgttg atgtgtagat gcatgacttc 540
ctcactaagc tgctgcacac cagctttgcc tgcatgattc aaatttgtgc ctcagtaaaa 600
ttataaatta ttgcatgtca taccttgaat aatggaaacg gcaaacatta aacctgtgat 660
tacccataat gtactttaat aataaaaaac atggcagcca ggtgcagtag agtgcacctg 720
tggtcaggag gctgaagtgg gaagattgct tcaacctgtg agtttgagtc ccgcctggtc 780
aacagcgaga ccccatgtgt ctgctgctnt ctcttttttt aaaggacana ngcttanct 839
```

<210> 370

<211> 2315

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1259)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1261)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1299)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2300)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2304)

251

<223> n equals a,t,g, or c

<400> 370

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tcagcactca aaaagttttg gattttgggg tatttcagat tttagatttt tgtatgagga 60
atgttcaacc tgtatttgaa caagcattac caaatatcat tgaatattaa tatcttttgc 120
gtaaaaactg ctattatcag catcatagtt tctctaaaaa gaaaacttgg ggatcatagc 180
cgatagagag acttgctaaa atataaatca gcctctgcaa aactgtttac atattttattg 240
gtttacatat tttattgggt tattttctatc cctgtttcac tttttctctt ccacttccaa 300
ttatgaagag aaaatatttg ttcaggggtg tcccccgcc ccccgctact gcataatttc 360
tcctcttaca agctgctttt ggctttcatt aataacagct tccttttaga aggtctgata 420
aggrtattta aggaagraga gratgactct gttattaaag gtggctggrg actgtggrgg 480
gatatttttt waagcactac tcatatcctt taactaaatt ttgccaagcc sgasacaaca 540
ttaaggagaa attgtacctt aagttagtaa ttccaaatct atctgagttg tatacccatc 600
aaagacaata cagttattaa catagatgaa ggtatgctat aggcattcatt cattatctct 660
atattgaata ggtgaaagat aactgtagtc aggtgaaagg cattcattat ttttaagctg 720
aaaaggggat ccttgaaaac actgaaaacc tctacaacaa tcttcaggaa gcctgctatc 780
ttgggattca ctaataatag gccaaagaaca aaggcaagca tccattcctc actccaccac 840
ttttctattt cagtgggtgt crttgctacg atgaagactt tggaaatttc ctttctcttt 900
taggacaggg tcaggattta ggactcatag cctgaaagct cattacatac tccttgtaac 960
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tgtaatccca agctactcgg gaggtcgagg caggagaatc acttgaacct gggaggcana 1260
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tactttttgc tttatacctt tctataatat ttagattttt ttttactgta agtatggatc 2100
aaattgcaaa ataaagaaaa atgccaacct tagaaaagac aataaatgca caaaagatat 2160
aaacaggaac agcaaatatt tatatttttt ccattttgct ctttttaaat ctatgttttag 2220
aactttatat cttgggactt atgtatatat atacctttta aataaaataa attttctaaa 2280
taaaaagtta aaaaaaaaaa gggngggccgc cctag 2315

```

<210> 371

<211> 3007

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2984)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2988)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3002)

<223> n equals a,t,g, or c

<400> 371

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gccactcccc catcgtgggg cagctgcgcc tgagggctgt ggctttggca gctgcgacgg 60
ggagcggcgg agaccgcctc tgctcccgcc tgggggttgct gcttttgctc agaggacatc 120
catgacccta atgggtctttt tgttcaagat aaagtgattt tttgcctttg ttgattaact 180
ggrcaaattm agcatgtaga gcratgaag tacaggacaa taaagcttcc tacacatata 240
accaggagga tctcttttgaa agattcactg caggactacc agagagaata atttgtctga 300
agcatcatgt gttgaaacaa cagaagtcta ttcacctgtg cactaactag aaacagagtt 360
acaatgtttt caattctttg agctccagga ctycagggaa gtgagttgaa aatctgaaaa 420
tgcgggccatg gactgggttcc tggcggttga wtatgctcat tctttttgcc tgggggacct 480
tgctgtttta tataggtggt cacttgggtac gagataatga ccatcctgat cactctagcc 540
gagaactgtc caagattctg gcaaagcttg aacgcttaaa acagcagaat gaagacttga 600
ggcgaatggc cgaaatctct ccggatacca gaaggcccta ttgatcaggg gccagctata 660
ggaagagtac gcgtttttaga agagcagctt gttaaggcca aagaacagat tgaatttac 720
aagaaacaga ccagaaatgg tctggggaag gatcatgaaa tcctgaggag gaggattgaa 780
aatggagcta aagagctctg gtttttcccta cagagtgaat tgaagaaatt aaagaactta 840
gaaggaaaatg aactccaaag acatgcagat gaatttcttt tggatttagg acatcatgaa 900
aggtctataa tgacggatct atactacctc agtcagacag atggagcagg tgattggcgg 960
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aagatagaaa cgggtcaagta cccacatat cctgaggctg agaaataaag ctcatgga 2160
agagataaac gaccaaactc agttcgacca aactcagttc aaaccatttc agccaaactg 2220
tagatgaaga gggctctgat ctaacaaaat aaggttatat gagtagatac tctcagcacc 2280

```

253

```

aagagcagct ggggaactgac ataggcttca attggtggaa ttcctcttta acaagggctg 2340
caatgccctc ataccccatgc acagtacaat aatgtactca catataacat gcaaacaggt 2400
tgttttctac ttgccccctt tcagtatgtc cccataagac aaacactgcc atattgtgta 2460
atttaagtga cacagacatt ttgtgtgaga cttaaaacat ggtgcctata tctgagagac 2520
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tgatggtggt attgtgacca ctgaattcac tccagtcaac agattcagaa tgagaatgga 2640
cgtttggttt ttttttggtt ttgtttttgt tttttccttt ataaggttgt ctgttttttt 2700
ttttttaaat aattgcatca gttcattgac ctcatcatta ataagtgaag aatacatcag 2760
aaaataaaat attcactctc cattagaaaa ttttgtaaaa caatgccatg aacaaattct 2820
ttagtactca atgtttctgg acattctctt tgataacaaa aaataaattt taaaaaggaa 2880
ttttgtaaag tttctagaat tttatatcat tggatgatat gttgatcagc cttatgtgga 2940
agaactgtga taaaaagagg agcttttttag tttttcagct tatntacntt gttttttgtc 3000
cnggttc                                     3007

```

<210> 372

<211> 752

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (521)

<223> n equals a,t,g, or c

<400> 372

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catgtcggtt taatgagatg tttccatgtc agctccttta cagccttggc tccyggctta 120
cagatttttg aatagttggt tgcttgccag ttgttttaca tctttcattg gccacaaaaa 180
tattagccat ttgagatgag atgagactac ttgttgtacc ttcattcttc atttaatttt 240
ctggcgtaaa ttaacatttt aatttcatat atatctgtaa agagtctacc caaaggcttc 300
acggaaattt gcaaaatgaa ctaattccct tttaagcagc aggtgtgcct gtttttgact 360
tttcagtaaa tatgttgttt gtgcacatat ctacatgggtg gagaccatat tcattatttc 420
atcttccaaa taatgggaaa aatataaaaag tgaatcagtg tgctttggga attcagtga 480
atcatgttaa ctcatataga gggggcctta gtttatctct nctttactga attaattagt 540
tttggaattt cttttaccat taaaaaaaaat taaggacat acagagaatg atttaagaaa 600
aaacaagtca cttaaaaatc atcacctatt tataaactgt attaattaca cataatgctt 660
attgattcaa tgagggtttct ctaaagactt ctgcttaata aatatggctg gacttcattt 720
aaattagttt aggactattg tagggatggg ag                                     752

```

<210> 373

<211> 712

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

254

<222> (560)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (638)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (682)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (683)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (708)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (711)
 <223> n equals a,t,g, or c

<400> 373
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 ttaccttatc tccagtagga aatggaattt tatgggcctt taaaagaaag ttttatgaaa 180
 cttgatgcta taattttatt ggtattttcaa ggggaaaaaa gcactggggt tcaaaaatgg 240
 tagcagaact gctttgaaat gctgcaagggt ggccactaga tgatgcaaaa tacaaccaa 300
 agattgactg agaataaaat taggtgacaa ggggtttttaa agaataacct tttaaagtgt 360
 gggggcaggg gttgcttttt tttattttat ttaaagtcaa ttatatttta catcttacat 420
 ttctaaaagc attttataat ttttttagt aagatttttc ttaaaatttc atatactgg 480
 ttctacaatt tatatttgaa atttctcagt gttatgtaaa gagtgatgga aaagcattga 540
 tttcttttaa accgtaatgn ttttagaact taagcctata gggcctttct tacaatgggtg 600
 atgtacccat tatcttagaa aatctagttt aaacctgntt tctttccccg caaaagaatt 660
 aaatggggaa aatccatttg gnnatcctct taagttattc ctaattangt ng 712

<210> 374
 <211> 1807
 <212> DNA
 <213> Homo sapiens

<400> 374
 ggcacgagtt atggattacc tagatatcgg tggcttactc atgcttggaa tttttttcag 60
 agagagttta agtgctgtgg agtagtatat ttcactgact ggttggaaat gacagagatg 120
 gactggcccc cagattcctg ctgtgttaga gaattcccg gatgttccaa acaggccac 180

255

```

caggaagatc tcagtgaacct ttatcaagag ggttgtggga agaaaatgta ttcctttttg 240
agaggaacca aacaactgca ggtgctgagg tttctgggaa tctccattgg ggtgacacaa 300
atcctggcca tgattctcac cattactctg ctctgggctc tgtattatga tagaaggag 360
cctgggacag accaaatgat gtccttgaag aatgacaact ctcagcacct gtcagtccc 420
tcagtagaac tgttgaaacc aagcctgtca agaatctttg aacacacatc catggcaaac 480
agctttaata cacactttga gatggaggag ttataaaaag aaatgtcaca gaagaaaacc 540
acaaacttgt tttattggac ttgtgaattt ttgagtacat actatgtgtt tcagaaatat 600
gtagaaataa aaatgttgcc ataaaataac acctaagcat atactattct atgcttttaa 660
atgaggatgg aaaagtttca tgtcataagt caccacctgg acaataattg atgcccttaa 720
aatgctgaag acagatgtca taccactgtg gtgacctgtg tatgactttt actgaacaca 780
gttatgtttt gaggcagcat ggtttgatta gcatttccgc atccatgcaa acgagtcaca 840
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actaattaaa tgctaacata ggaagttaga aaataactaat aacttttatt actcagcgat 960
ctattcttct gatgctaaat aaattatata tcagaaaact ttcaatattg gtgactacct 1020
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atagcatcat tatttttagc ctttcctgtt aataaagctt tactattctg tcctgggctt 1260
atattacaca tataactgtt atttaaatac ttaaccacta attttgaaaa ttaccagtgt 1320
gatacatagg aatcattatt cagaatgtag tctggtcttt aggaagtatt aataagaaaa 1380
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caatagtctc caagtcaata taaattctac agaaaatagt gttctttttc tccagaaaaa 1560
tgcttgtgag aatcattaaa acatgtgaca atttagagat tctttgtttt atttctactga 1620
ttaatatact gtggcaaaatt acacagatta ttaaattttt ttacaagagt atagtatat 1680
tatttgaaat gggaaaagtg cattttactg tattttgtgt attttgttta tttctcagaa 1740
tatggaaaaga aaattaaaat gtgtcaataa atattttcta gagagtaaaa aaaaaaaaaa 1800
aaaaaaaaa                                     1807

```

<210> 375

<211> 1815

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (201)

<223> n equals a,t,g, or c

<400> 375

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gcagaccatt cctccctaaa gctggccctc gagcgggcag aggagctgtg ctctcaagtg 120
aatgagggag ttcgggagaa ggaaaactcg gaccgactgg agtggatcca ggcgcacgtg 180
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ggaagctctt acacagtggg aaattatata agaccaagag caacaaggaa ctgcacggat 300
tcctcttcaa tgacttcctg cttcttacct acatggtcaa gcagtttgct gtttctctctg 360
gctctgagaa acttttccagc tcgaagtcca atgctcaatt caaatgtat aaaacgccc 420
ttttcctgaa tgaagtcttg gtgaactgcc cacagaccct tccagcgatg agcctgtctt 480
ccacatttcc cacattgatc gggctctacac cctccgaaca gacaacatta atgagaggac 540
cacctgggtg cagaagatca aggcggcgctc tgagcagtac atcgacaccg agaagaagaa 600
gcgtgagaaa gcttaccaag cccgctccca aaagacttca ggcattgggc gcctgatggt 660

```

256

```

gcatgtcatt gaagctacag aattaaaagc ctgcaaacca aatggaaaga gcaacccata 720
ctgtgaaatc agcatgggct cccagagcta caccaccagg accatccagg acacactcaa 780
tcccaagtgg aattttaact gccagttctt tattaaggat ctctaccaag acgtgctgtg 840
tctcaccttg tttgacagag accagttttc accagatgat ttcctgggtc gtactgaaat 900
tccagtggca aaaattcgaa cagaacagga aagcaaaggg cctatgaccc gccgactgct 960
gctgcatgag gtccccaccg gggaggtctg ggtccgtttt gacctgcagc tttttgagca 1020
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gctggagaat gagagactgc gctctcttgg ggctgaggga gcaccatgca gcttcacccc 1140
tcacaaagcc atgcacgctg ggggctctgt tttcctgcac actaaatagc tagcaatcta 1200
tgcaaacacc tttcccataa agaaaccaa ccccatagta cagtgccttg tcctagtgtt 1260
cacatgttca gctctgtttg tttagatgcc aagggtttcca ttttcagggc tataaaaagt 1320
attacttgga aatgaggcat cagaccacca gatgttaccg ctcggttgaa tgtgtccacc 1380
gtggagtggg ttggtgacgc tgtaacatt ccacgccagt gacctctgct gggtcacagc 1440
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ctgaaatagc gtctactcgt gcaactgaata aaaacagaaa cttgatcatt ttattcctga 1560
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ataaattatt tatgtaaatt cattgttttt gcatatttct taggacatgc atctttaagc 1740
tttatcattg cccatatgta cagaaagaga ataaagacat atgtttatgg atggaamaaa 1800
aaaaaaaaaa aaaaaa 1815

```

<210> 376

<211> 550

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<400> 376

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ctcctgggac agagatctag atccagagag aacattcgtc cttccgatct cagctcagct 120
ctgagagccc tcccagagag cagctcccga gggtccaga gcctccgaaa gccctcccag 180
agagcagccc ccacctccca ggctgtctgc acttctcctt gctatgcttt gctctgtaac 240
atTTTgcaac agtctgcagt acacgggggt tgTTaatctg agtattcatt gtttctcttg 300
ctgggcagtg aacttgagga gggcagggat tttgtctgtt cactgctggr gyccagcac 360
ccaraatact taaatctgag ttggatgaat ggccggccagc cactgggatt ccagggtttt 420
gggccccctg ccataacata tggcccargg cargcgccac atgctgggtc agtccccarc 480
ctnctgtyca caratccttc tetgttctac tccygggctg tkctcttcca cctcaactc 540
ggttctcagg 550

```

<210> 377

<211> 3202

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2957)

257

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3119)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3192)

<223> n equals a,t,g, or c

<400> 377

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```

258

```

tggtgttact cacttaagac tggaattaga atgtttctgg tatttctcat tttttccct 2340
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aatagcgtgg ttgggggtga agatgatagc agttattaaa tcaggaatct cttttatgta 2460
tgtccttggt acattgaggt taagagacaa aatcattggc agtgcaatct cttccagga 2520
tttcgtttgc tgtggcattg gttatatcag agcactttaa tctgaaggat gatactgtaa 2580
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```

<210> 378

<211> 2401

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (179)

<223> n equals a,t,g, or c

<400> 378

```

aatatctcat gaatgagttt gaagtttgct tggattttga aatgaatggg actttgtctt 60
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tatgtacagt tctctgtggt aacagctgag aagtaagcaa ccttttctga ctgcataatg 180
gtgtattcct cttttgagtc ccataatat ttataaaatt gtaatgccc atcttgtact 240
acagttgtct tattcgtatt gtttataaac tttgagggtt aggactgggt cttactcatc 300
tttatgtgcc ttcccttatgc ttcaaagaat ttaccatcta atggaagaga acatttgcaa 360
gttggtccca taccaagctc ctccacata ctctactcat ctgaactttg aatgcagaat 420
ctttaaattg caaccccaca tactaaggtc aagaaagaac ttaatgggaa ttaatctcca 480
cccatagct ttaccctgac atcaggattg ccaaatccaa tggactcttg tctattctta 540
cgtgacttct gctggaaaat gcgaatgttg accatcctgc cacttggaac tctcttccca 600
ctcctcacat tgcttttgct accactggaa gtcccttctg tttcttgtgg agtacctttt 660
gctgtctggg acttgtagat aatgggtgtt cctagggtct cctccagggc cctctgctc 720
actaactgga tatacttttc ctgagcaaat ccaggaac ttgcgtcaga ccgtgacttc 780
aaatacaggt tgataaatgc taaactgtct ccaaaccaga ctctatccta gcctccacac 840
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cctaaaataa tgactttttc cccaataat tgccccctgt atattcctta tttctgaatg 960
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attgagaacc acttctgaat atagcaaggc tgtaaattat ccactacgtg ccctcgtaat 1140
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tgtgaccctt ccaatatcta ttccacactg ttgcctaagt ggcccttagta aaattcaagt 1260
ctgggtattt tattccccctg cttggaatct ctcaatgtag aatgaaactc attcagcatt 1320
aacacatagg cccttcttga tctgacatcg tgtttctcta gttagactaa agaatcccca 1380

```

259

```

ctatgaagtt gtttcatccg taagtacctt tgaaccacaga agcccccttt ctcatatgtt 1440
tctcattcct gtttgccctt cagagttcag ctttagttgc taaaacattc agacatccct 1500
ctgacttaga tccccacta ctgtttttct gtgagaagca gctatgcata attcctcttc 1560
aacacagtag ttcttgaaat ttgacaggcc tctcctggaa aggaggaaat gacttctctg 1620
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cctacccaaa caagtttttt gtttcacttc atctcttata aaacaatgtt ctaaagtaag 1920
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tactaaagag catagcttta aaatgatagt gctgagaact cccacctct accccaccac 2220
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a                                                                                   2401

```

<210> 379

<211> 852

<212> DNA

<213> Homo sapiens

<400> 379

```

gccacgcgt cgacccacgc gtccgggctg gtctcgctt gtcgccagct ccattttcct 60
ctctttctct tcccccttcc ttccgcgccca agagcgcttc ccagcctcgt aggggtggta 120
cggagccctt gcgccttttc cttgctcggg tctcgctcc gcgcctgcc cgccatgaat 180
gaggagtacg acgtgatcgt gctgggcacc ggccctgacgg aatgtatcct gtcagggtata 240
atgtcagtga atggcaagaa agttcttcat atggatcgaa acccttacta cggaggagag 300
agtgcattca taacaccatt ggaagattta taaaaagat taaaaatacc aggatcacca 360
cccaggtcaa tggggagagg aagagactgg aatggtgact tgattcccaa gtctcttatg 420
gctaattggtc agctgggtta gatgctgctt tatacagagg taactcgcta tctggatttt 480
aaagtgactg aaggagactt tgtctataag ggtggaaaaa tctacaagg tcttccact 540
gaagcagaag ccctggcatc tagcctaata ggattgtttg aaaaacgtcg cttcaggaaa 600
ttcctagtgt atgttgccaa cttcgatgaa aaagatccaa gaacttttga aggcatgat 660
cctaagaaga ccacaatgcg agatgtgtat aagaaatttg atttggttca agacgttata 720
gattttactg gtcattgctt tgcactttac agaactgatg attacttaga tcaaccgtgt 780
tatgaaacca ttaatagaat taaactttac tactgtggaa agacaactgt ttttaataaaa 840
gatttacatt cc                                                                                   852

```

<210> 380

<211> 2014

<212> DNA

<213> Homo sapiens

<400> 380

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ggcatgttag tagacgactg aatatggaaa ggatatcgag ttatctattt tggttaatttt 60
atttttgttt tttatcatct agatttttat catggattag tctgaaattt aaagttcttg 120
ccagtcgggt ttctttcatc ttgtagtttt tacagtatct ccactgtgca tatgcaaaaat 180
gggtattaca taactgtatc atatttggtt ttgataattt tttttttttt tgagacggag 240

```

260

```

tcttgctgtt gccagggctg gagtggagtg cgtgggtgtga tctcgggtca ctgcaaactc 300
cgccctcctgg gttcaagcga ttctcctggc ccagccctyct gagtagctgg gattacaggt 360
gtgtgccacc rtgccagct aatttttgtg tttttagtag agacgggggtt tcaccatgtt 420
ggccgggctgg tcttgaactc ctgacctcag gctatatgcc cacttccacc tcccaaagtg 480
ctgggattac aggcattgagc cactgtgccc agcctgggtat tgataattta tattcagata 540
atttgttatg gctctttaat atcccacaag gggctctaaa aagcaaakat tcaagagtat 600
gtagttttta gacattaagt taattatttt aaacagtgcac agcaaaacac aagtgattaa 660
atatagttta tttgttccaa tgactaaatt ttacctcatt tattaatctg gtcattaagg 720
aatatattta ataataattat gtaattattc tttttatgca tgatacacct agaaaaatgc 780
cttttgtttc tattgatggc tttgttgttt ggagctactt ttgattactt attgcagttt 840
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ctaactagga gttgacaagc taagaaagtg aaactgttct ttcttagtta actgtctttc 1860
tctggagctc tgttatttttg agtataatat ttccacgaca cttagttaa gcaagctaaa 1920
atgtaataat aataaattgt attggagaaa ctaaaaaaaaa aaaaaaaaaa 1980
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 2014

```

<210> 381

<211> 565

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (557)

<223> n equals a,t,g, or c

<400> 381

```

nggggtgggg ggccctaatt gagaggtgtg ggtttsgcra gaaaraaaga aaattcccca 60
cttggaaga aagaggagga aactggatt ctwactttct ggatcttrac actgggctgc 120
aaaacctacc ttctctctct ccgcctcccc tcacctcaa ctctcaatgt cttgctgtca 180
ttttctgtct cggctccctc ctcccccttc ccccttcccc caccacacac ccttcacct 240

```

261

```

ctgtgtcctg gtccttctga gggccactgc agatgactct cctttgaaat gagaaaaaga 300
aaagaaagca agaacagaaa acgaagccac aggaagggaa gtagacattg tatgcttatg 360
gtttctcatt atgaaggtgc agcttgtagg aggtttgtac ggatgtgctt tgaagttatg 420
tatattacat ataacaggaa aaaatattaa aataaacagt gctggtaagt atgaagctga 480
cattctaaaa ttataattat ctgactgtga ttgatgtatc ctgaggttcc tagatcttac 540
tgaactggcc cagcttngga gacct                                     565

```

<210> 382

<211> 131

<212> DNA

<213> Homo sapiens

<400> 382

```

gtcgacccac gcgtccgccc acgcgtccgc ccacgcgtcc gccacgcgt ccgaaaaaaa 60
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaggcgggcc g                                     131

```

<210> 383

<211> 2026

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2026)

<223> n equals a,t,g, or c

<400> 383

```

gggcgcgcgc cctcgaggcc ttccggtgcg ggagaaacta ctactcccat aatgccccgc 60
gggtcccggag cttgccagtc tcgtcgcgag aagcagcggc ccggggcgac tgagcggaca 120
aacggaagtg taggttacgg tctgagacat caccgccaaag ctggggcatcg gggagatggc 180
cgagactgac cccaagaccg tgcaggacct cacctcgggtg gtgcagacac tcctgcagca 240
gatgcaagat aaatttcaga ccatgtctga ccagatcatt gggagaattg atgatatgag 300
tagtcgcatt gatgatctgg aaaagaatat cgcggacctc atgacacagg ctgggggtgga 360
agaactggaa agtgaaaaca agatacctgc cagcgaagg agttgaagg tgctaataat 420
ttatactgga atctggcatt tttccaagcc aagagaagat cgaatggctt tttgcagcta 480
actactatgt gtagacagggt tttatattat aaagtatgca ttcttatcac ctagtatata 540
gttagtttgt agagtgatct ccccccagtt tcttgaacat ggtatcttca catcttggac 600
cttggtcagt tgtgctattc attattaaac actaaaactt tggcgggttct tgcataacat 660
tgtcagattt tttagtgtat ttctgtgaag tcattttttt tcttgtcatt cctttttagt 720
tagttgctgt ttggataaaa gttgatgtgt gattttttat taaacaaata gtaaaccctt 780
caattatagt tagtcttgggt gaagtaagat gttttagtag ttttagagttc ttttaattctt 840
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aaaaaacact attttactta aactgtttct tatctaaatt cttgcagagt gtcaatgtta 1380

```

262

```

tcattgatta tagaagacag ggataatacc tttatctctg gccactcaaa aatgcagtgc 1440
caggagtgtc aaacctagag gccaatactg atgacctgga aggtgatcca tatgattgtc 1500
accacaaagt gcttttacac aaaaacttga aaatttgaaa aacatgattt ttttaagtgt 1560
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cgtccctggg gatgtttctc agcctcggaa gtggcaaatg gaaatgatat ggccggttgc 1860
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aaaggcaggc tgccctgacc aaaaatatct gccatgaata aagggtgctg aaatcctgct 1980
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaan 2026

```

<210> 384

<211> 1346

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (249)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (251)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1334)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1342)

<223> n equals a,t,g, or c

<400> 384

```

tcgaccacgc gtccgcgcgc gcggcgggcg cgaggcgaag aaggaggagt gtgtgcggcg 60
gggccgcgcg ggtaaaggcg agaaggctgc aggagaccga gggggagccg ggccggtggg 120
gccgccgcgc ccgccatgca ggaaatcatc gccagcgtgg accacatcaa gtttgacttg 180
gagatcgcgg tggagcagca gctggggggcg cagccmctkc cscrgcagac acagcctcca 240
gcaaagcana naacccccgca ggtcatcggg gtcatgcaga gtcaaaacag cagcgcgggc 300
aaccgggggac cccggccact ggagcaggtc acctgttaca agtgtggcga gaaaggacac 360
tacgccaaac gatgcaccaa agggcacttg gcctttctca gtggacagtg acagcagctg 420
gagccagctc cgagcagccc gggggccccc ctgttgggag tgtgcattta actgtttcat 480
gcgcttggtg gcgcgactgt ggctcgagct ggcccgcaga cacgtgggtt tcatcactct 540
gagggggccac gtctgttagt ttccatcatc tttgccttag tattttttga aaaagggaca 600
tgtgtcctgt ggggtccctgc agtcgacatc atgtttggct gggcatcgat gcctcctttc 660
tgggactccc ggcacaaact ccctcatcca gggagggagg cagctgctgg ggaggggctt 720
ggctaggttag ttctgtgtgg cgggtggtcat tcccctcatt aaacaccagt tcttggtgac 780

```

263

```

gccagggggt ggtaggtcat tcaaagctgt ggccagctca cgcctgcttc ctccctccct 840
gccctgctga atcctaaagc tgtgcctata tctgtgattt gaatgagga gccctttggg 900
gcaaattcag gtgcccccat tgccctcaggc tggccctggt cccaggtggc agcggttgag 960
gaggggtaca gggctctcaa gcctgaggtt ttcttctctg ggcttaattt tctcttgggg 1020
tacgtgcctg acagtgttta aggtgtccgt tgaactggag ttgcagactt ttaaatagat 1080
gaccccttca gatcatctgt gcctacctcc tgcccatcag gcgtctacac tgtcactcag 1140
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cctgcaacct gctgggcatg tgggcctggc tgtgttcaat tgcaagaaca atttttatga 1260
aatggattaa agcttgtttt ttaaaaaaaaa aaaaaaaaaa ytcggggggg gscctgtacc 1320
cattggccct tggngggggg tnttaa 1346

```

<210> 385

<211> 637

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (637)

<223> n equals a,t,g, or c

<400> 385

```

gcccacgcgt tcgcccacgc gtccgcccac gcgtccgaat ttcacgtttt tatgtaagca 60
tgaaacacag gcagtatgag agaaagcaag gcccgtcag ctgtccgtac actacgtatg 120
ctgtagagcc attttgtatg ttgtgtaaaa caaaaagcat tgatgaaaaa gcaaaagggtg 180
atgtatgtat atgagaaaaa taattgtacg atatcattcc agtacgtttt gttgtacatt 240
ttagtcttgt ttactttctc ttcattgtta agaggatgag aactgtacag tttccagcta 300
gttaccata ttagagaaga aataagagag tattagaaga aaacaggaga gaaagaacat 360
ttgtgaattg cagttgtcaa aaaaaaaaaa tagcctagct ggccttattt gtgaagcata 420
attgtcttta gcatatggaa gtattttttc acattttctt tgtataaaat ttgtattaaa 480
cttaaataatc tttttgatgg tgggtgtttc ttgtgactga gccagtagac tcacactata 540
tgcttttttg gggttgcccc ttccctcccc cccccccca gttttttcag atttytttac 600
ctttttttta ttaaactggt ttggaaaaaa aaaaaan 637

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<210> 386

<211> 862

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (723)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (760)

<223> n equals a,t,g, or c

<220>

<221> misc feature

264

<222> (780)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (809)

<223> n equals a,t,g, or c

<400> 386

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cagagcgggg ccgggagggg gggggaagag gcgagagcgc ggagggcgcg cgtgcgcatt 120
ggcgcgggga ggagcagggg tcttggcagc gggcgaggag gctgcgagcg agccgcgaac 180
cgagcggggc gcgggcgcgc gcaccatggg ggagaaaccc gggaccagct caccgtgtac 240
ttgggcaagc gggacttcgt agatcacctg gacaaagtgg accctgtaga tggcgtggtg 300
cttgtggacc ctgactacct gaaggaccgc aaagtgtttg tgaccctcac ctgcgccttc 360
cgctatggcc gtgaagacct ggatgtgctg ggcttgtcct tccgcaaaga cctgttcata 420
gccacctacc aggccttccc cccggtgccc aaccaccccc ggccccccac ccgcctgcar 480
gaccggctgc tgaggaagct gggccagcat gcccamccct tcttcttcac cataccccag 540
aatcttccat gctccgtcac actgcagcca ggcccagagg atacaggaaa ggctgcggs 600
gtrgactttg agwtcgagcc ttctgtrcta aatcactaga agagaaaagc cacaaaagga 660
actctgtgcg gctggtgatc cgaaagtgca ttgcgcccgg agaaaaccgg gcccagctt 720
tanccgaaaa caaaaggcat tccttcattg ctgaacggtt cctggaactt cgaaggtttn 780
ccttggaataa aggagctgta cttaccatng gggagccctt tcaatggtaa aatgttccaa 840
gttaacaaaa aaaatttcaa cc                                     862
```

<210> 387

<211> 585

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (474)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (573)

<223> n equals a,t,g, or c

<400> 387

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gctgcaaaaca aaaagaatga agctcgactg agaattgtaa aaactcttga agacattgat 60
ctgggcccta ctgaaaaatg tgtgagagtc aactcagttt ccagtgggtct ggcggaagaa 120
gacctagaga cctttttgca atccccgggtc ctcccttcca gcctgatgct accaaagggtg 180
gaaagtcctg aagaaatcca gtgggtttgca gacaaatttt cattccactt aaaaggccga 240
aaacttgaac aaccaatgaa tttaatccct tttgtggaaa ctgcaatggg tttgctcaat 300
```

265

```

tttaaggcag tgtgtgaaga aaccctgaag gtcgggcctc aagtaggtct ctttctagat 360
gcagtcgttt ttggnaggag aagactttcg agccagcata ggtgcaacaa gtagtaaaga 420
aaccctggga tattctytac gcccggcaaa agwttkttgt catagcgaaa cctnttgggt 480
ctccaagccg tagatctggg tgtacattga ctttcgagat gggagctggg gcttgcttag 540
gacagttcac ggaggaaggg agccgccatg ggnnttttcac tgggt 585

```

<210> 388

<211> 591

<212> DNA

<213> Homo sapiens

<400> 388

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gtgatctgca tgtggcaggg ctgcgcagtg gagcggccag tgggcaggat gacgagccag 60
acccctctgc cccagtcccc cgggcccagg cggccgacga tgtctactgt tgtggagctg 120
aacgtcgggg gtgagttcca caccaccacc ctgggtaccc tgaggaagtt tccgggctca 180
aagctggcag agatgttctc tagcttagcc aaggcctcca cggacgcgga gggccgcttc 240
ttcatcgacc gccccagcac ctatttcaga cccatcctgg actacctgcg cactgggcaa 300
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gcagaagcca taacagcacg gaaktccagc gtgyttgtgt gcctggtkga aactgaggag 540
caggatgcat attattcaga ggtcctgtgt ttttcttgca ggataagaag g 591

```

<210> 389

<211> 1096

<212> DNA

<213> Homo sapiens

<400> 389

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ggcagagcaa gatgggggct taccacacca tgcagctgga gccaaccgc cagttcaccc 60
tggccaagaa gcagtgggat agtgtggtac tggagcgcac cgagcaggcc tgtraccag 120
cctggagcgc tgatgtggcg gctgtggtca tgcaggaagg cctcgcccat atctgcttag 180
tcactcccag catgaccctc actcgggcca aggtggaggt gaacatccct aggaaaagga 240
aaggcaattg ctctcagcat gaccgggcct tggagcgggt ctatgaacag gtggtccagg 300
ctatccagcg ccacatacac tttgatgttg taaagtgcac cctggtggcc agcccaggat 360
ttgtgagggg gcagttctgc gactacatgt ttcaacaagc agtgaagacc gacaacaaac 420
tgctcctgga aaaccggtcc aaatttcttc aggtacatgc ctctccgga cacaagtact 480
ccctgaaaga ggccctttgt gaccctactg tggctagccg ctttccagac actaaagctg 540
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ctttctatgg actcaagcag gtggagaagg ccaatgaagc catggcaatt gacacattgc 660
tcatcagcga tgagctcttc aggcacagc atgtagccac acggagccgg tatgtgaggc 720
tgggtggacag tgtgaaagag aatgcaggca ccgttaggat attctctagt cttcacgttt 780
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mamrtaaaaa aaatgc 1096

```

<210> 390

<211> 448

266

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (76)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (132)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (394)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (439)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (447)
 <223> n equals a,t,g, or c

<400> 390
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 ggccgggggtc cnggccccggc ggcggggaccc aggcgggtga ggctgggtcag gagtcagcca 180
 gcctgaaaga gcaggatgga tcttgatgtg gttaacatgt ttgtgattgc gggcggcacg 240
 tggccatccc aatcctggca tttgtggctt catttcttct gtggccttca gcaactgataa 300
 gaatctatta ttggtactgg cggaggacat tgggcatgca agtcgcgtat gttcaccatg 360
 aagactatca gttctgttat tccttcggg gcangcctgg gcamaaamcc tccatctca 420
 tgctccacgg attctcttnc cacaagnt 448

<210> 391
 <211> 1451
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (17)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (18)

267

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1429)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1440)

<223> n equals a,t,g, or c

<400> 391

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gcagggatcg gaagccgggt ggggtgtgag aggttttctc gctctaggga gattcttcaa 120
gcaatcacta tgtcaacaga cacagggtgtt tcccttcctt catatgagga agatcaggga 180
tcaaaactca ttcgaaaagc taaagaggca ccattcgtac ccgttggaat agcgggtttt 240
gcagcaattg ttgcatatgg attatataaa ctgaagagca ggggaaatac taaaatgtcc 300
attcatctga tccacatgcg tgtggcagcc caaggctttg ttgtaggagc aatgactgtt 360
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tgctgtcttg gtcttggttg aggagcttgc tttagttaga tgtcttatta ttaaagttac 480
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tattggcttc ctttcttgca ggcttgattt gcttgggtgac cgaattacta gtgactagt 600
tactaactag gtcattcaag gaagtcaagt taacttaaac atgtcaccta aatgcacttg 660
atggtgttga aatgtccacc ttcttaaatt tttaagatga acttagttct aaagaagata 720
acaggccaat cctgaaggta ctccctgttt gctgcagaat gtcagatatt ttggatgttg 780
cataagagtc ctatttgccc cagttaattc aacttttgtc tgctgtttt gtggactggc 840
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attgacaata tatatgcatg tgtttaaacc aaatccagaa agcttaaca atagagctgc 960
ataatagtat ttattaaaga atcacaactg taaacatgag aataacttaa ggattctagt 1020
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ttaaatgtgt gtgttgctaa ttttttccat aagaattgta aacattgaac tgaacaaatt 1200
acctataatg gatttggtta atgacttatg agcaagctgg tttggccaga cagtataccc 1260
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atgtgcattc catggtgtta acatggtata tgtattgtta ttaaagtaag tgacccatgt 1380
caaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaana aaaaaaaaaa 1440
aaaaaaaaaa a                                     1451

```

<210> 392

<211> 1425

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> misc feature

268

<222> (1332)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1381)

<223> n equals a,t,g, or c

<400> 392

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agttaataag taaaagctac taacaattaa aaaataaata aataaagnca agactgtctg 60
gaaaatggct ctcctaaaag gaccagttgc catcatccac agtggaagat tcaaagcagt 120
tggtcccttg tacgtatgag aagcggattt cattcccttg aattctacag agcagtttat 180
tagagtgaat gcattttaag gccttgcaat tgatatgtca tccagttcat aatcaagttg 240
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ctagcacaca tctggtttat actgaagccc cctgcctaga aatactcatt tcaggaacca 480
ccagtaagca tctgtgacca cacaggcttt ttgactgatg gcttcccgga tctggtttca 540
agggataacc ccgtctgtgt gcacttatgg tcttctctct acagcgagga ctttgcagtg 600
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caacagtcta antttttgtc attcaacatg actcgtttat ccaacctgaa atcgcatata 1380
nccgcaaata tgggtgttagg gacttccgta gaagttccct tagat 1425

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<210> 393

<211> 4755

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (124)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2562)

<223> n equals a,t,g, or c

<400> 393

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agcggcggcc agtggaacca catgcttggc tacctggcgg cgctggccaa ggctgcttc 60

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ggcgggcaaca tgcagctctt cgtcttcttc aacggcgcg ctcgagaaagg cccggctgca 120
cgantgggtc aagcggcagg gcaacgagcg ccaracggca cagcagatcg tmagccatgt 180
ccagaacaag ggcaccccg cgcctaaagg ctggttcttg ccgcccgtyt gcatggccca 240
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ccatcaggaa gtgattgggt tctgcagaga gaatgggttc catggcttgg ttgcgtatga 360
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acgggtgacg ccaggggccc cagccactct gaaagtgcct tgaataatga ctctaaaacg 3060
tgcaatacaa atcctcattt aaatgcacta agtacagaca gcgcttgccg cagagaagct 3120

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270

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gctctggagg cagctgtcct aaataaagaa gagtaaacct attttttata gaggggtgaag 3180
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cattttgtcc ttccgtaag agaaaaatga ggactttgga aattcagatc cctctttgat 3300
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aatgcaactt acaatgctta ataaaaatct ttattctttt agtataaaaa aaaaaaaaaa 4740
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<210> 394

<211> 3039

<212> DNA

<213> Homo sapiens

<400> 394

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ccaggaaggt gcttcaatat tggatattca cacagagccc agtttttcaa gtttgcttcc 180
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271

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<210> 395

<211> 3276

<212> DNA

<213> Homo sapiens

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<221> misc feature

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<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3260)

<223> n equals a,t,g, or c

272

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<220>
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 <223> n equals a,t,g, or c

<220>
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 <222> (3270)
 <223> n equals a,t,g, or c

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273

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<210> 396

<211> 1632

<212> DNA

<213> Homo sapiens

<400> 396

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274

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tacaacccta tagataatgt tttttgcttg attgacttat ataatcactg tttcatgatt 1500
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caaatttaat aaagtgtgta tacatgcata aaaaaaaaaa aaacctcggc cgcgaccacg 1620
ctaagccgaa tt 1632
```

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<210> 397
<211> 808
<212> DNA
<213> Homo sapiens
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<400> 397
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```

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<211> 2428
<212> DNA
<213> Homo sapiens
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<221> misc feature
<222> (1025)
<223> n equals a,t,g, or c
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275

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aagctcgtgc tgcagaaaga gctatagctg aagagaaaag ggaagctgcc aatttragac 900
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2428

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<210> 399

<211> 2732

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (699)

<223> n equals a,t,g, or c

<400> 399

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acatatatcc cttgtgcatg aaaaaaaaaa aaaaaaana gaatcgtacg tcgacttttc 720

```

276

```

atccccccaca gcctcagcct agggaaaaatg gttcatggga taaacagctg gtatttgtat 780
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<220>

277

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 aaaagaaata attttatttt tccccttttg ggagatatta tctcttaata tgagaatcag 240
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278

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<212> DNA

<213> Homo sapiens

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<221> misc feature

<222> (1316)

<223> n equals a,t,g, or c

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279

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<211> 4062

<212> DNA

<213> Homo sapiens

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<220>

<221> misc feature

<222> (4061)

<223> n equals a,t,g, or c

<400> 403

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280

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281

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<211> 861

<212> DNA

<213> Homo sapiens

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<222> (25)

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<222> (767)

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<220>

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<222> (820)

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<222> (849)

282

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<220>

<221> misc feature

<222> (854)

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<210> 405

<211> 1030

<212> DNA

<213> Homo sapiens

<400> 405

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<210> 406

<211> 2428

283

<212> DNA

<213> Homo sapiens

<400> 406

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<210> 407

<211> 2047

<212> DNA

<213> Homo sapiens

284

<400> 407

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<210> 408

<211> 892

<212> DNA

<213> Homo sapiens

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<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (33)

<223> n equals a,t,g, or c

285

<220>
<221> misc feature
<222> (855)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (868)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (891)
<223> n equals a,t,g, or c

<400> 408
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<210> 409
<211> 696
<212> DNA
<213> Homo sapiens

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<222> (675)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (676)
<223> n equals a,t,g, or c

<400> 409
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286

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tattctggac aaattgcttc tttttaattt gagctatctg ccatggactt tctaaaatgg 180
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atataraaaac tatannaaaa aaacaaaccc gggatt 696

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<210> 410

<211> 1885

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (741)

<223> n equals a,t,g, or c

<400> 410

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287

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ccggcgagcc ctggggcggc ggccgctcct gcactttctc ccctcccca cccggcacct 1800
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cgatcccaca gcctcaaaaa aaaaa 1885

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<210> 411

<211> 584

<212> DNA

<213> Homo sapiens

<400> 411

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ttagatgctt tacatatact attttgttta atatcctttt taaa 584

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<210> 412

<211> 1412

<212> DNA

<213> Homo sapiens

<400> 412

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288

<210> 413
<211> 364
<212> DNA
<213> Homo sapiens

<220>
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<222> (363)
<223> n equals a,t,g, or c

<400> 413
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cactgtcacc ggcctcaggg agtttatgtg taatagaatt aaaaataata gctgtgtata 180
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taaaattcag caaaggactt gatagcctct ccccgcttt tcaataaagg atgaatgaag 300
gttgaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaacccc gggggggggc 360
ccnt 364

<210> 414
<211> 1333
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1140)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1196)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1210)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1246)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1285)
<223> n equals a,t,g, or c

<220>

289

<221> misc feature
 <222> (1287)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1306)
 <223> n equals a,t,g, or c

<400> 414
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<210> 415
 <211> 3146
 <212> DNA
 <213> Homo sapiens

<400> 415
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290

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tcctctccaa catcactgca ggaaatcagc agcaggtaca ggcagtaatt gatgccaatc 720
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aaaaaaaaactc gaggggggggc ccgtac 3146

```

<210> 416

<211> 594

<212> DNA

<213> Homo sapiens

<400> 416

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acatacgaaa tttgacaggt attgtatacc ctttggatct ttaggaatta atttttgcct 60
ctgtcactca gctttgtata ttttgaaatg gagataagta tagggagggtc ttggaaggaa 120

```

291

```

aattgccaga attcccaaac catgtaacac tcattgagaa ttccagatcc attatatcta 180
aagggcaagt gaaggaaaca gtattgtgaa ctgggtataa ctccttggtt cttactagt 240
acattcttaa tctgtgagac ccaaagggtg ataaacaata atttaagatt gtacagtact 300
ctaaacgtct gcaaaggctc agatgttacc agtatcacta gtttttattt ctgccagtag 360
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ctatggcaag ttcattaaaa agcttgctcc attgttatct tcaagtaatg cccataagga 480
gatggaagat atctgagaca attaaggctt tagcttctag gcaagagaaa taacgttgca 540
ttaaatttca agtttctttc tgctagactt gaatgtgtct agccactcta attt 594

```

<210> 417

<211> 562

<212> DNA

<213> Homo sapiens

<400> 417

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cagcaagaga aagcgcctgag agctcgcagg ttcattaaag aaggcaaagc actggtttct 180
ctccttagaa aagtaggttt cttggcttga tgtagactgg cttgctttga tttttagtga 240
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tcgcagcttt gggcagcttt gagaagcggg acaagagttc tgtgcctgtg tgtccagccc 480
tggagccagc cagtgcattt attttaagct cttagaagca actccttggc ccaggaatgc 540
gtgaccctg agatgggtcc ac 562

```

<210> 418

<211> 1412

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1218)

<223> n equals a,t,g, or c

<400> 418

```

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agctctccct gtccagccgc ctgcagctga ccctgtacca gtacaagacg tgctccctct 180
gcagcaaggc ccgagccttc ctgcacttcc atgccctgcc ctaccagggtg gtggaggtga 240
accctgtgcg cagggctgag atcaagttct cctcctacag aaagggtgcc atcctggtgg 300
cccaggaagg agaaagctcg caacaactaa atgactcctc tgtcatcatc agcgccctca 360
agacctacct ggtgtcgggg cagcccctgg aagagatcat cacctactac ccagccatga 420
aggctgtgaa cgagcagggc aaggaggtga ccgagttcgg caataagtac tggctcatgc 480
tcaacgagaa ggaggccag caagtgtatg gtgggaagga ggccaggacg gaggagatga 540
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tcaagagcag gcaccgcctc caggacaacg tgcgcgagga cctctatgag gctgctgaca 780
agtgggtggc tgctgtgggc aaggaccggc cttcatggg gggccagaag ccgaatctcg 840

```

292

```

ctgatttggc ggtgtatggc gtgctgctg tgatggaggg gctggatgca ttcgatgacc 900
tgatgcagca cagcacatc cagccctggt acctgcs ggt ggagagggcc atcaccgagg 960
ctccccagcg cactgaatgt cccccgcgca gagcagaggg aaggcaagcg gaagacgcca 1020
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ctacatcctg tgggtggggg ccctcgacag gacagcagga cggtttg ttt tcagtggaat 1320
cccatccctg ggttcccctg gttcccactc ttcccaagcc tcccgggact gggacatgtt 1380
tgcaataaaag gaaaggtttg tggcgccaaa aa 1412

```

<210> 419

<211> 1939

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1872)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1884)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1889)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1924)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1929)

<223> n equals a,t,g, or c

<400> 419

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gagaagacga cagaaggggg ccgtcctctc agtggtagcg cggggactgg ctgggaagcg 60
gtcggctcag tgtggcctgt gtggactcgc atcttgcccg aagccgggcg gaggagagct 120
caagctaagg gtgatcagcc catgacctaa acctccagac aaaataaaac ggaaaatttg 180
ctagaatcaa gaatgatgga tccatgttca gttggagtcc agcttcgtac tacaaatgag 240
tgccataaaa cctactatac tcgtcacaca ggttttaaga ctttgcaaga attgtcatca 300
aatgatatgc ttttacttca acttagaact ggaatgacac tttctgggaa caatacaatt 360
tgctttcatc atgtaaaaat ttacattgac agatttgagg atttacagaa gtcattgttg 420
gacccattta acatacacia gaaattagcc aaaaaaaatt tgcattgtaatt gacttagat 480
gatgccactt ttctgagtgc taaatttgga agacagcttg tacctggttg gaagctttgt 540

```

293

```

ccaaaatgca cacagataat caatggaagt gtggatgttg atactgaaga ccgccagaaa 600
aggaaacctg agtcagatgg aagaactgct aaagctttga ggtcattaca atttacgaat 660
ccaggaagggc aaactgaatt tgctccagaa actggtaaaa gagaaaaaag aaggcttaca 720
aaaaatgcaa ccgctgggttc agacagacaa gtgataccag caaagagtaa ggtctatgat 780
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aggaagtgat ggtaaaaaaa aaaaaaactt tacmttaaaa grtatttaat gtgaatatrg 1860
raatattyca cnacmttgaa agcnccagnc ataaaggggtg gaagctggcc ccaacttaga 1920
aggngtatng cagttgccg                                     1939

```

<210> 420

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (545)

<223> 'n equals a,t,g, or c

<220>

<221> misc feature

<222> (550)

<223> n equals a,t,g, or c

<400> 420

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ggaaggctga ggtgtgcgcc tttttttttt ttccttctta gtctgtgtga catcattggg 60
aatggaggga aataaatgac tggatggctg ctgcttttta agtttcaa atgacattcca 120
gacaagcggg gcttgagccc gtgcctgtct tcagatcttc acagcacagt tctgggaag 180
gtggagccac cagcctctcc ytgaataact gggagatgaa acaggaagct ctatgacaca 240
cttgatcgaa tatgacagac acygaaaatc acgactcakc cccctccagc acctctacct 300
gttgcccgcc gatcacagcc ggaatgcagc tgaaagattc cctggggcct gggtccaacy 360
gccactgtg gactctgagg cctctgcatt tgcgggtggg ctgcctgtga tattttgggtc 420
atgggctggg ctggctcgggt tcccatttgt ctggccagtc tctrtgtgtc ttaatccctt 480
gtccttcatt aaaagcaaaa ctaaagaaaa aaaaaaaaaa aaaaaaaaaa aatttggggg 540
ggggncccgn tacccaattg ggccttttag gggggg                                     576

```

294

<210> 421
 <211> 951
 <212> DNA
 <213> Homo sapiens

<400> 421
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 ataatctgta atgttatgaa gacctatcaa aaagttttta aagtatttct gtcttcaaag 180
 gtagtaagac aggattaaat ttttattaga atagacaaat cagtgaatgg tatgcatgta 240
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 acaaaagagt ggaagtattc ctttacaaaa tttctaagga aaatatttct tccaatctat 420
 cacaattata gaatggatat atgtttctga aaagtttttg aaagaaagca aaagttctag 480
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 acttgttttg attgagagtg tgacatacat gttaaatcag attagcttgt ttctttttaa 660
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 tttttaaact tttagatttg tgaatgacct atgtgtaaat ttttggtttt ataaaccaga 780
 aattatacaa gttttaatgt gtgtcaagaa cttgttccat acaactgtgg tatcgagcaa 840
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 taccactata caatactttt ttctgtatt aaatctttta aataccaaaa a 951

<210> 422
 <211> 673
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (12)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (76)
 <223> n equals a,t,g, or c

<400> 422
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 caartctggc tccattcctg gycwtctgtt ggtgacagac cccccctaa ggtgctcggt 180
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 cctcaggacc ccacccctct gagggccagg ggagccctgt tcacgctggg ttctccccag 300
 gacctatgag ctctctgggt ggcctgggccc ttgctgtggg actggccctg ctctgtact 360
 gctatccgcc agaccccaag ggcctgccag ggacccggcg cgtytsggt titytsgcytg 420
 tcatcatcga cagacatgtc agccgctacc tgctggcctt cctggcagat gacctagggg 480
 ggctctgaca gaccctggac ccagggcctc acctgccact caaccaaaga gtcctcgagc 540
 cggcccgcga aggggactgc tgcttctttt tctaaatgca tatttttcat tatttataat 600
 ttgtgtaaaa aacacacctt caccttaciaa ggtgctgacc atattaaatg ttcagggttct 660

295

ctcaaaaaaaaa aaa

673

<210> 423

<211> 2073

<212> DNA

<213> Homo sapiens

<400> 423

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ctgccccgcg agcggactga ttgcagagt ctgtacatag tgtatattgc tctaccgggc 180
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tgtgccagct cccttccctc ccggttstcc tgtccccaca gccattcttg gactggggga 480
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ttctcattta caccaacagg tttcagttcc aacagaaagg tcgggtagg ttctgtcaga 660
gatggggctg gcaggggggc tatgggagga ttattttaac agatcaagaa aatgaagcca 720
aatcaagtga attaaattcc tcacaattat tttctttccc tgaggtttga ttggcacagc 780
agcaaaagtt gagggcaccc cacttgtgtc cactgttttt agaaaaaat gaatggcttc 840
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gactcarggc tggaccgacg tcctagtggg cctgatgtga aattcctgtc aaacaaacac 1920
cacttttcaa tgglttgcta ggagtatttc tgtattgaaa gtttctaatt atgcttttta 1980
aaaaataact aaaaataaag gttcaagctg ccaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2040
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<210> 424

<211> 2609

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

296

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2585)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2602)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2609)

<223> n equals a,t,g, or c

<400> 424

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cccacgcgtc cggcctcccc cgcggtggcg nccggcggcgg cgggtggctgc ctggcgggctg 60
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gtctgcccag ggggactgcg agttcctggg gcagcgagcc cgggagttgg tgccgcaaga 180
cctgtgggca gccaaaggcg ggctgatcac ggcccgcagc ctctaccggg cagactttaa 240
catccagtat gagatgtaca ccatcgagcg gaatgcagag cggaccgcca ccgccgggag 300
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acggtgggtgc agcatggggt tggccttggg swggcactat tagwggctga aactattgaw 600
gaacaagaat ctccagtga cgtctttaga aaattatttg tttgtgatgt ctttctctta 660
ataattaaca accatgatgt tcgattacct gccaatttat tgtataagta cttgaacaaa 720
gcagctgaat tttatatcaa ttatgtcact aggtctactc aaatagaaaa tcagcatcaa 780
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caagttccac tggttcttct tgaagatgta tcgaatgtgt atggtgatgt agaaattgat 1200
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ccatactgcc tccatttaat gttagcctgt tttaagctta gagctttcac agacaacaga 1860
gacgacatgg cattggggca tgtgattgtg ttgcttcagc aagagtggcc acggggcgag 1920
```

297

```

aatctttttcc tgaaagctgt caataaaaatt tgccaacaag gaaattttcca atatgagaat 1980
tttttcaatt acgttacaaa tattgatatg ctggaggaat ttgcctactt gagaactcag 2040
gaaggtggga aaattcatct ggaattacta cccaatcaag gaatgctgat caagcaccac 2100
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agttcccaag agtctgagaa gctatttcta tttttaagag tcattttttg taatttttgt 2460
aaaacaaaag taccaatctg ttttgtaaat aaaaatcatc ctaaaatttg aaaaaaaaaa 2520
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2580
aaaanaaaaa aagaaaaaga anaagaaan 2609

```

<210> 425

<211> 987

<212> DNA

<213> Homo sapiens

<400> 425

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cagtgtcaca tgcctgtaaa cccagctatt caggaggctg aggtgggagg atcggttgag 60
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agacctcatc tcttaaaaaa taaaaaataa aaagtctaag aggatacaca gaaattttta 180
agtggttacc tccacggaat gggattaggg gatcagagggt gagggaaactc atgggttggc 240
tatttctcgt tctttctgca ctgtttcaaa tttttacaag tgtatgttat tgtactttta 300
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gaaaagtgag gatttaaatg aagtaacccc taaactcagc cagtcccatg tttttttaac 420
acttgggaata tctaattcca tttacactgc attcttcaaa tgtaattttc aaagatgcct 480
tttgctcat ccttgcttt taagtattat tatagacttt tggagactca cgaaacaagc 540
aatccctaaa ttctcgccca ggaaagtatc ttggattaaa tgggttttga gaaccttgag 600
agtgtatatt ctatgaaatg gaagaaacaa gaactagaca gagtcacaaa tgctgttgat 660
cacagacaat ctctgccatc cataaggtaa atgtaataca tctggcgacc tgctgagtgt 720
gaacttgcag caggtgagga aggaactctg aactctcaca atcttgtttc ttcatttccc 780
agagagaaac tcggcaaaga gaaaaaggac atttccctcc aggttatctg aaagaatttc 840
aatgcttacc ttaaatcatg tgacattggt tatcttggtat taaaagaaaa gaaaatgtat 900
ttattttgtg catattttca ataaaatata taaaatcgag ttggtatata gtgccaata 960
ccattaatta aaaatatttt aacctga 987

```

<210> 426

<211> 1726

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

298

<400> 426

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tggtagtctc ccaantcctg nggtccagta agtagcttag aacttcctgg aaacatttca 60
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gctccccgcg atgcatgggg atttctcccc agaccagcat acttgtgacc tgagagttca 180
atgygtaaag atgccccctg tcagccatat ccatcttctc ttgectggtc cttgattctc 240
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gccatctgtc caggcageta gacaagaact tgttcaccag cagccggatt caggccttcc 360
caggggcata ataagtgacc agccccctct ctccggacat cagatccaac acataaggac 420
cctggcctac cctccagccc aacagccagt tctgggtcag ctgccaactt aggggtgggt 480
tgattatccc attgaaattc accagtgcct ttgcccaga cctctcatt tggacatacc 540
cagattcatt ccctggctcc aactgaaaag actcagtttc aatcggttaa agttccttta 600
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gcaaacacag tggtagtag cagtctggac ctggctccct ctggcatgga acccatcact 840
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gagcctgtgg tggagatcta aagatgttta gggagagact cgactaaaga acaatgaaat 1680
aaatggtcca aggggaagtc aaaaaaaaaa aaaaaaaaaa aaaaaa 1726

```

<210> 427

<211> 1528

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<400> 427

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cggggggggaa ggcgcacctg ggggtggcct ggcgtgcggg cggcgacatg gaggacggcg 120
tgctcaagga gggcttcctg gtcaagaggg gccacattgt ccacaactgg aaggcgcgat 180
ggttcacacct tcggcagaaac acgctgggtg actacaagct tgaggggggg cggagagtga 240
cccctcccaa gggccggatc ctctggatg gctgcacat cacctgcccc tgctggagt 300
atgaaaaccg accgctcctc attaatgctga agactcaaac atccacggag tacttctctg 360
aggcctgttc tcgagaggag cgggatgcct gggcctttga gatcaccggg gctattcatg 420
cagggcagcc ggggaaggtc cagcagctgc acagcctgag aaactccttc aagctgcccc 480

```

299

```

cgcacatcag cctgcatcgc attgtggaca agatgcacga tagcaacacc ggaatccgtt 540
caagccccc aa catggagcag ggaagcacct ataaaaagac ctctctcggc tcctcttggt 600
ggactgggttc atctccaaca gcttcacggg cagccgtctg gaggcgggtga ccctggcctc 660
catgctcata gaggagaact tcctcaggte tgtggctgta cgatgcatgg gaggcattcg 720
gtctggggat ctggccgagc agttcctgga tgactccaca gccctgtaca cttttgctga 780
gagctacaaa agaagataag ccccaaggaa gaaattagcc tgagcactgt ggagttaagt 840
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attagggctc agcatcttga cttttcccca gcatcacaaa cagccatttc ctggggcacc 1440
aaagtaggtt ccctttgttg gaacaattac actggccatg ccataatgtt gaataaaaact 1500
ctcttcttaa aaaaaaaaaa aaaaaaaaaa . 1528

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<210> 428

<211> 2055

<212> DNA

<213> Homo sapiens

<400> 428

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aagaggacag tgatagatgc atttkcccca ggctgtctca gaaaggctgc taaatgtata 60
ctgttgtcag aattgctgag atctccccc acttttrgtt tttrsagcag taaaaactct 120
ttccactgtg acttatatttc tctctcagge agccagccac ctggctccct gtgctgactc 180
tagcacagtg gccaggatcc aatacgagtc caggggtgac cgcaggatgg tgggggcagc 240
gggcttctcc acctacccca gccaccaagg scctgacgca ctgyctcctg caccttcage 300
acatccctgt gcacagctgg aagggtgcat ggcccgtcct cctttgttca gatgggtgga 360
aacgctgatg ataccagctc ctccctkccg tgcccctgcc acggagcagg cattgtgaac 420
tggctgggtg ttgcagtccc acgtggcatg gcctccagcc caaccacag tggagactgg 480
agacagggca atgagtctgg tggggggcac gtggacatgc cccatagggg cccacccag 540
acttaacagg caaggctctg ggcatgtgcg gacgcaggac tcaatgctaa agcaagcctg 600
cctggctctg tgccaggggc cctcttctga ttacacatc ccatttttac acagaccctt 660
ccttcttaat aaaggctgac agttctgttg gcagccaaga acccacacca tgaagacagg 720
gagtgagggg cctttgtgcc caactccagc acagctgcgt tctggggtgt gtgagaggca 780
tgttcgtgtc tgtgcgtgg tggctctctg agacagttcc gaggacgggg aaattgcagg 840
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atgattttgt gtttcttgat gacagactat taagtttggg acttattttc ccatgtgaga 1500
agttataata tatatttaag atgataagtt tcctgcttaa gttgtgcctt tcagcttcaa 1560

```

300

```

tgagttttaag gagcactaag ggtaatgata ccaatgaggg ttgggtttatt atcaaacctg 1620
aatagctgtg gtttctccag taaatatttt cttctactga acatggagcc attattaaga 1680
gttgtgtgtt ttttattatg tacatttgta tatttttttg cttgtttgat gttctatttt 1740
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tgtagttgtc gtccaccacc ttccaacaaa tgtgaaactg ccttgccctc cttttttgct 1920
gacaacactg tgtacattga ccacttccta ccatacttta tgttgtaaaa tcaaacctct 1980
ttgtggtaca ttatctcatg cttctgcaaa ttccaataaa ttctatggct tccaaaaaaa 2040
aaaaaaaaaa aaat 2055

```

<210> 429

<211> 355

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (348)

<223> n equals a,t,g, or c

<400> 429

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ggcagagcag gcaccagctc gcatggctgc tgggcagggc cattggcggg tctragtgtg 60
ggcgcgtcct cgctaactgc atgcagcctc ccactctgcg catgtttgct tgggcagaaa 120
atgctgagac actgtggcgc gacctgacag tcagcacttg gcagtgggct ctgtggacct 180
agcatttctc atagcgtcaa ccacactctt gccttggtga ggctttttcc ttccagatga 240
gctgtccttg acattctgat gtggtgaaat ggtagcagc atggactttg gaaccagata 300
gacctagata caaaccacag tctaacattg ctwaccctgt gaaccttngg ggcaa 355

```

<210> 430

<211> 2834

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2828)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2834)

301

<223> n equals a,t,g, or c

<400> 430

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gtgttgcagt ctgtgtcctt ggaggtgacc agggccactg caggcatggt gctagcagag 120
ctgtacgtct ctgaccgaga gggaagcgat gccacgggag atggaaccaa ggagaaacca 180
tttaaaacag gtctaaaggc tttgatgaca gtagggaaag aaccatttcc taccatttac 240
gtagattcac aaaaagaaaa tgagaggtgg aatgttattt ctaaatacaca gttgaagaac 300
attaaaaaga tgtggcatag ggaacaaatg aagagtgaat cccgggaaaa gaaagaggca 360
gaagatagtt tacgaagaga aaagaacctg gaagaagcaa agaagattac cattaataat 420
gatccaagtc tcccagagcc aaaatgtgtg aagattggtg cgttagaagg atatagaggc 480
caaagagtaa aggtgtttgg ctgggtccac aggtctgcga ggcaaggaaa gaatttaatg 540
tttctggtgt tgcgagatgg tacaggttat cttcagtgtg tcttggcggg tgagttgtgt 600
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aatcttacc caaagggcaa gcaggctcca ggtggccatg agctgagttg tgacttcttg 720
gaactaattg gggtggcccc tgctggagga gctgacaacc tgatcaatga ggagtcctgac 780
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aataggctgt attcccagca gtcaataaat gaacacccgt aaaaactcaa aaaaaaaaaa 2760
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2820
aaaaaaaaang gggn 2834

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302

<210> 431
 <211> 2709
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (402)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2677)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2691)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2699)
 <223> n equals a,t,g, or c

<400> 431
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 agcagcagag acatctcctt cagcagcaag agcagcagct ccagcaactc cagcagctcc 180
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 cagaagggac cccttggaact ttttctcgcc atccctcccc ccagcgcagg ggcacaagct 1140
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 tgtgtgtgtg tgtgtgtgtg tgtgtctgtc tgccctgtctc tctcctcctg gacccagggc 1440

303

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agccaagggc agggataggg gcagtgggtca gatgaagcag cgccagagag gggacctccc 1500
agctcttatt tgcacctcct ccacctcacc aacttttggtc cctctctggg ggcatgaatg 1560
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<210> 432

<211> 739

<212> DNA

<213> Homo sapiens

<400> 432

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agccaatggt caagaagact ccaaggcccc agatgggtcc acactgaagg ccctgggcct 180
gcctcagcca gacttccaca gcctcatcct ggacctgggt gccctctcct ttgtggacac 240
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ccaacacccg aggctgtcc ccgacagccc tgtttcggtc accagactct gaacatgcta 480
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ggaggtcctg ggactccaag ttcagcgctc caggtctggg acagggcctg catgcagtca 660
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atattgtctg tcaaaaaaa 739

```

<210> 433

<211> 853

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (734)

304

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (758)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (767)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (833)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (851)

<223> n equals a,t,g, or c

<400> 433

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gagggcactg gatttggagg gaatcccatc tccatgggga agggcctccc tgaacggaag 60
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agaggggaat gtggtgactc accctgcgtg gtggggggag ggcagggcca tgccagggcg 180
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tgggggagca gcactttctg cttgtkaarc cctgactgga accacttggc ctggagtctg 360
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cccaggactt cagcaagttc caggcgctga agcccaagct gctggacacg gtggatgaca 480
tgctggccaa cgacatcgcg cggtgatgg tgatgggtgcg gcaggaggag tccctgatgc 540
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gcaaccacct nat 853

```

<210> 434

<211> 1098

<212> DNA

<213> Homo sapiens

<400> 434

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ggaacttgct attggtcagg acgtttccta tgctaataaa ggggtggccc gtagaagatt 60
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catctacttc gtatgactat tgcagagtgc ccatggaaga cggggataag cgctgtaagc 180
ttctgctggg gataggaatt ctggtgctcc tgatcatcgt gattctgggg gtgcccttga 240
ttatcttcac catcaaggcc aacagcgagg cctgccggga cggccttcgg gcagtgatgg 300
agtgtcgcaa tgtcacccat ctcttgcaac aagagctgac cgaggcccag aagggttttc 360

```

305

```

aggatgtgga ggcccaggcc gccacctgca accacactgt gatggcccta atggcttccc 420
tggatgcaga gaaggcccaa ggacaaaaga aagtggagga gcttgaggga gagatcacta 480
cattaaacca taagcttcag gacgcgtctg cagaggtgga gcgactgaga agagaaaacc 540
aggtcttaag cgtgagaatc gcggaacaaga agtactaccc cagctcccag gactccagct 600
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```

<210> 435

<211> 1178

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (917)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1176)

<223> n equals a,t,g, or c

<400> 435

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cctgtgcctg acaccaggtt gacagatgtg tagggaacaa aattatgacg ggatggccac 180
acagttggct gtttgtactc attgctgcca gctgtctccc agaacagtca tctgctctgt 240
agggggagaa acagggacat gaaaagccct ggaaggttgt caggaagcaa ttttaaattt 300
ctaatatgta aacatcgggg ctttggcata ttttgaacca ttttgatgat aggaatggag 360
gtggtaggag ccaccctgat taagttcttg ttgagaataa actggtgcac cagacattta 420
cataggctga atcaatgttg atggcagccg tgtttttaat ccatgggctt aaaacagtgt 480
ccctcatacc tgtctcttgc tgaggccctt gtcgcagggt agccatgtct gacttccgag 540
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cctccttgac tcaggctggg tcctccattg tttctgccac ctgcaggcca ttggtgctcc 660
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gcaaaacccg cgcggtttct ctgggccgca aagcggctgt tccccacaa ggtgtccaac 1140
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```

306

<210> 436
 <211> 686
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (364)
 <223> n equals a,t,g, or c

<400> 436
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 gagecgttcta tgagtgaaaa tgctgttcgc caaaatggac agctggtcag aaatgattct 180
 cttgtgacac catcgccaca acaggctcgg gtctgtcctc cccatatgtt acctgaagat 240
 ggagctaatac tttcctctgc tcgtggcatt ttgtcgttta tccagtcttc tactcgtagg 300
 gcataaccagc agatcttgga tgtgctggat gaaaatcgca gacctgtgtt gcgtgggtggg 360
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 gatacaacca ttgaaggaaac gtcagatgac ctgactgttg tagatgcagc ttcactaaga 480
 cgacagataa tcaaactaaa tagacgtcta caacttctgg aagaggagaa caaagaacgt 540
 gctaaaagag aaatgggtcat gtattcaatt actgtagctt tctggctgct taatagctgg 600
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 atataaaaga ttgcaaact taaaaa 686

<210> 437
 <211> 2588
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (2481)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2505)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2542)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2544)
 <223> n equals a,t,g, or c

<400> 437
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307

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aaaagaca 2588

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<210> 438

<211> 3609

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

308

<222> (32)

<223> n equals a,t,g, or c

<400> 438

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ttgctgcggt taaagaaaca aatgagagta ttttgtcaga tatgtcaaca ttacctgacc 180
aacgtgaata ctactgttaa ggaacaggcc ttcactattc tgtgtgatat tttgatgac 240
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gagatgaata cagctgcaga tatcttcaaa cagtatatga agtattataa tgactatgga 540
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309

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<210> 439

<211> 2643

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2630)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2633)

<223> n equals a,t,g, or c

<400> 439

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```

310

```

aatgcaactga acagcctgtc cgagaaccag tccctgctgc ggatgccacc ctgggtgaac 1260
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gacccctgc cgatgatctt caagctccgg gccctggacc tcaccagtg gctcatggtc 1380
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gggcttcagg tgactgacca aggtcacat gagagtttca gggttttttg agtaacagct 2580
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aaa 2643

```

<210> 440

<211> 637

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (564)

<223> n equals a,t,g, or c

<400> 440

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ttcagcctgc caaagtgtct ggactatagg cgtgaaccac tacacctggc ctataatatt 180
ttcttacgga aatgagatct cactgtgttg ctacggcttg tcttcaactc ctgggctcaa 240
gcaatcctcc tgccctgggc tcccaagatg ctgggattac aggcgtaagg cactgggcct 300
ggaccataaa ataaagtttt attggaagac agtcattctc atttaatgta ttttgttcac 360
atttgcccta cagtggcaga gttgagaagc tgtaacagag accatgtggc ctgcaaggcc 420
caaaatattt gttatctggt cttttgttga aaaagtttag ccaggcatgg tgggtgggcgc 480
ctgtaatccc agctactcgg gagtctgagg caggagaatc gcttgaacct gggaggtaga 540
ggttgacagt agccgagata gtgnccatgc gctccagcct gggcaacaga gtgagactcc 600
atctcaggaa aaaaaaaaaa aaaaaaaaaa actcgta 637

```

<210> 441

<211> 2595

311

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (64)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1222)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2398)

<223> n equals a,t,g, or c

<400> 441

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gtgctcttgg ttctacgctg tgcagcccaa gttggggact acaaaagwag tgcacaagtc 60
tggntacctc agytctgagc gnctgatccc tcaagagtga tggaccagca caaacttacc 120
agggaccagt gggaggaccg gatccagggtg tggcatgcgg aacaccgtgg gatgctcaaa 180
gataatgcta tggttgaata cctgaagatt gctcaggacc tggaaatgta tggaatcaac 240
tatttcgaga taaaaaacia gaaaggaaca gacctttggc ttggagttga tgcccttgga 300
ctgaatatatt atgagaaaaga tgataagtta accccaaaga ttggctttcc ttggagtga 360
atcaggaaca tctctttcaa tgacaaaaag tttgtcatta aaccatcga caagaaggca 420
cctgactttg tgttttatgc cccacgtctg agaatcaaca agcggatcct gcagctctgc 480
atgggcaacc atgagttgta tatgcgcgcg aggaagcctg acaccatcga ggtgcagcag 540
atgaaggccc agggccggga ggagaagcat cagaagcagc tggagcggca acagctggaa 600
acagagaaga aaaggagaga aaccgtggag agagagaaag agcagatgat gcgcgagaag 660
gaggagttga tgctgcggct gcaggactat gaggagaaga caaagaaggc agagagagag 720
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tagaaagcag ttaccaaca gaaacattct gggctgggaa ccagggaggc gccctggttt 1560
gttttcccca gttgtaatat tgccaagcag gcctgattct cgcgattatt ctgcaatcac 1620

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312

```

ctcctgtgtt gtgctgggag caggactgat tgaattacgg aaaatgcctg taaagtctga 1680
gtaagaaact tcatgctggc ctgtgtgata caagagtcag catcattaaa ggaaacgtgg 1740
caggacttcc atctgtgcc aacttgttct gtattcgaaa tgagctcaaa ttgatttttt 1800
aatttctatg aaggatccat ctttgtatat ttacatgctt agaggggtga aaattatttt 1860
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cagctggcag agagcacagt gatcaccagc gtgagtgggtg gaggaggaca cttggatatt 1980
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tcgtgcactg ctttctcctt cacagctaag atgccatgtg caggtggatt ccatgccgca 2520
gacatgaaat aaaagctttg caaaggcaaa aaaaaaaaaa aaaraaama aaaaaama 2580
aaraaaaaaa aaaaaa

```

<210> 442

<211> 1301

<212> DNA

<213> Homo sapiens

<400> 442

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ggcacgagga ctgattgccc cttgggctca tatgttggaa tcgaccaggt aggccagccc 60
tgccattggg gcattagtaa atgtgcctgt gcgtgggtct cggccaaca cagttgatat 120
acatttgttt acctgttata gttgcaagtt gtacaggctg acattgcctc gatcgacagt 180
gatgctgtcg ttcacccgac aaacactgac ttctacatcg gtggtgaagt aggaaacacg 240
ctggagaaga aaggtggcaa ggagtttgtg gaagctgtcc tggaaactccg gaaaaagaac 300
gggcccttgg aagtagctgg agctgctgtc agcgcaggcc atggcctgcc tgccaagttt 360
gtgatccact gtaatagtc agtttgggggt gcagacaagt gtgaagaact tctggaaaag 420
acagtgaaaa actgcttggc cctggctgat gataagaagc tgaaatccat tgcatttcca 480
tccatcggca gcggcaggaa cggttttcca aagcagacag cagctcagct gattctgaag 540
gccatctcca gttacttcgt gtctacaatg tcctcttcca tcaaacgggt gtacttcgtg 600
ctttttgaca gcgagagtat aggcatttat gtgcaggaaa tggccaagct ggacgccaac 660
taggctgagc aatgacagaa ccagctgcac catgtacccc accttcagtt taaaagaaaa 720
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ctagggaaaa taaggctttg gtttccagtt taattgtttt tgaccttcta aaatgttttt 840
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cttagtgtaa cctaggagat tttatagttt tatttttaatg aaacctgat tgacgcacag 960
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aaaaaaaaaa aaagggcggc cgctcgcgat ctagaactag c

```

<210> 443

<211> 689

<212> DNA

<213> Homo sapiens

313

<220>

<221> misc feature

<222> (678)

<223> n equals a,t,g, or c

<400> 443

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ttctgctacg cctgtacaga cgtatcttcc cagagtgaag gttgatgttt agccgttccg 60
aagttggtgc tttgtgggaa ggagaacagc gggagagccg taagkaacgc agcgtcctga 120
cgtgaggaac gcctcttaac acgccccgtg gcatggagtt tgacagggcc ctggatccct 180
gcgttcaccc ctcttgaggt cctggacgcc cacctgggag cagcgtcagg gccgtgccac 240
tttgacccac gttaaacgca ttgcatectc atttctgtgt cccatctaga tgcttgactc 300
agtgatgcag aacctttcag agttagctgg aagccacagc cctgcctctt gatgcagcct 360
ggatccagcc ggtgtgaaga ggagaccctt tccctcttgt ggggtttgga tcctgtgttt 420
ctagcctttg caaaactcta catcagggat atcctggaca tgaaggagtc ccgccagtgc 480
cagtgtatgt ttgtacaagg acatccaata aaacaggtag atgtcttggg aactgtcatg 540
gagtgcagaa aagagatgct ttctacagtt awggagtggg tgacarcact kgagttataa 600
actgcacatg ctgggaaaaa gttgaatact gagtctgtaa tcagctgctc caagtggcaa 660
gcaagagagc tcagcttnaa cctcacaac 689
```

<210> 444

<211> 395

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (384)

<223> n equals a,t,g, or c

<400> 444

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cttgaacctg aagaggcgga gggtgcagtg agccaagatc gcgccattgc actccagcct 60
gggggacaag agtgagactt agtctcaaaa aaaaaaaaaa agaaaaaaaa atcaggggata 120
tagttcatat cccacttctt tgtttacacc gatgtccctg aatatcagcc tgtagctaat 180
ggacttggga tttctggtct aagtgggcct cctggggatg ggggtgtaca ctgagcttct 240
gagcctcatt gtagagtaga aaggtagctg ggcctgtgtg gtaagccttg ttgaaatgct 300
ctggtattca gtattgcctt aataaacttc acccacaact gcaaaaaaaaa aaaaaaaaaa 360
aaaaaaaaaa aaaaaaaaaa cccnngggggg ggcccc 395
```

<210> 445

<211> 1558

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

314

<222> (420)

<223> n equals a,t,g, or c

<400> 445

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caataatctt aacagtgtcc tggctgarcg actggagaag tggctgcaac tgatgctgat 60
gtggcaccct cgacagaggg gcacggatcc cactatggg cccaatggct gcttcaaggc 120
cctggatgac atcttaaact taaagctggg tcatatcttg aacatgggtca cgggcacccat 180
ccacacctac cctgtgacag aggatgagag tctgcagagc ttgaaggcca gaatccaaca 240
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ggacatggat cttgtttttc tctttgacaa cagtaaaatc acctatgaga ctcagatctn 420
cccacggccc caacctgaaa gtgtcagctg tatecttcaa gagcccaaga ggaatctcgc 480
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agattgcaac cggctgcagc agggacagcg agccgccatg atgaatctcc tccgaaacaa 600
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gctctgtggg cgggagaacg aatgaaactc ctggtagaac ggatgatggc tctgcagacc 840
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atacaggaca ctgtgaggga acaagaccag agtttcacgg taacagcttg tgtgagactc 1440
ctgcgattcc atgtcctttc tttctatggc aaaatagaag agaaaatgga aatgcaatct 1500
ggcattatcc tcaaccccaa aaaaaaaaaa aaaaaaaaaa aaaaagtcgt atcgatgt 1558

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<210> 446

<211> 3085

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3077)

<223> n equals a,t,g, or c

<400> 446

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cntcttggag gcttaaaagt ttctgtacct tgtgatgaat gttaaatagg gtttttatta 120
tacaaaagctg aatgtcattt ctcgtttgta gctttctgtc actcattcca tcttccttca 180
gacatcacca cgtttctcta aagtcagaaa acattccggt ttggtctttt tcaaaaagggt 240

```

315

```

cccaaattgct gcactctaca catgaaggcc ctctcacaca gacgtgacgt cctgccagaa 300
agagaatgaa tgacagaaaa aaaaaagaga gacaaactct aggaacaatg ccgattcatt 360
ccacgcagca gtattggggg tggttcgggg gaggggtgtt tcggattttc ttttttytt 420
ttcttttmtt tttttttttt tgcagcaacc attaatataat gccaccacat tctaccagca 480
caaggaaaaca taggcagcac tgaaaaaaaa aaaaaaagct catattaatt agactgacaa 540
tatggccttg gaaggctctc ccttgttgaa ccaagttgcc atgggccttg ggtgctctgc 600
gataacgggt gtgggttggt tttgtttgca aaatggccaa aaaaaaaac cggcttcccc 660
gagcagctgc cctgaaagta ggggtggcgg cggcggcgct gagtttatac attagttcag 720
acctacttgg tggcattaaa ctgtttgaat gcaaatcga tttcagattg aacttgtaa 780
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tctcagcatg tgtagctaga catgagtaaa gataacagca tgagaaactg ttagtacgca 2100
tacctcagtt caaaccttta gggaatgatt aaaatttaaa aaaaaaacat ttcactcagt 2160
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tcctgtgca gtaaatattt tgcagatga aattccaggg tcacactttt ccaagtttat 3000
cagtgaagta gtgattaaca atggggagtg tcaaaactat tgaacttttg tataaaaaaa 3060
aaaaaacttt acaagngcc aagat 3085

```

<210> 447

<211> 1917

316

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1915)

<223> n equals a,t,g, or c

<400> 447

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tacgaagtgc aagcatttgc gagcagccat gattcccggc gcacgcagcc gtcacgcgca 120
ccgtacagcc cagtccacga agggcgccac gggccgtgac gtcacctatg cccgacggcg 180
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ccaccagctg gtgggtgttt gtaatcgcca agcaccagct ataggtcaca gccacatcac 1860
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```

<210> 448

<211> 946

<212> DNA

<213> Homo sapiens

<400> 448

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ggcagagcgc gcacgagtcg gcacgagaac actgctatgg gcgttggtcc atgatcaaac 60
ggctggcatg actcatcata gtcacgaaca gttattagcc agccatggct gtggttgctt 120
gccttagcag tcctgtgtta gcattgcttt actctgggca ctttttctt attctctatt 180

```

317

```

ctgggataga agtagtttct gacttctage cacgttcagt ccaggctgga gagatctaca 240
cctgttttcta ggattctcgt tttcaagggt tctgaatata ccctactccc acttaccccc 300
aaaataagct ttttacckgg ataggagagg gaaagaggta tttttcatca attctccctt 360
tctctgctct tctccctttc taataccata aggcagttct tcgtgacttt tacagaaaca 420
tatgtacacg tccttacaga gtttaggaga gcctgtgggc tttttgcctt agtctgctag 480
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gaccctctcc ctctctggat ggcaccatca ttgaagctgg cgtcatcgga gtctcttggt 780
ctgttggcgt gctacctgga agatccttct gtcctggaca agaggaattg gaagagcatt 840
ttatgtttta agaacaggct gacacgcagc agctacaaca acagctgaga tcacttaata 900
aatggtgcta aactaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 946

```

<210> 449

<211> 1190

<212> DNA

<213> Homo sapiens

<400> 449

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gttatggttc ttattcatat atttttatag cacctttttt tggaacctat atttgtgctt 180
gaagggtgtt ttgatatttg gaaacagtat aagccatttg gagtcatgat tgggtggtcaa 240
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ctctaaggac aatattttaat tcagatacta aaggtaagac tggttgttac ttttgttttg 420
ttgtacaatt agtactttat agtcacatgt tgtatatatt aaatagccca gttttattca 480
gacttgtaaa tagaactatt tcaatgtagt taatctaaaa acaaaaaaga aaacccagct 540
cacgatttgc atgttctctg taagcttcat ccatgctggg tattgcaactg aatgatrtat 600
tattagggca tgtaacagt ataccagtaa cagcacttta tctcatttat atgaacacct 660
ttgaggtgct acttaagtcc aagctctgat gtattattca tttgtaaaga taaggtagag 720
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aaatgctaatt ttgagagaag taggagtgtg tctgttttat atgttgggat gtgaaattta 840
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tgaaagtctt actcctttgt tagttttgtt tctgcacaac tactgtactt ttccatatgg 1140
aataaagact attaatagaa aaaaaaaaaa aaaaaactcg agactagcct 1190

```

<210> 450

<211> 915

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (915)

<223> n equals a,t,g, or c

318

<400> 450

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gggtcgaccc acgcgtccgc ccacgctccg cccacgcgtc cgagactatc tttctagaca 60
aggcagttga ggaggaggga gcgcttgagg gggactggcc tggcgtgcac tccgcacctc 120
ggggacatta ttgcgcgtgg aacggctgct tttggaagac tattgccag aagaaaagat 180
gttttggttt cacaagccaa agatgtaccg aagtatagag ggctgctgta tttgcagagc 240
taagtcctcc agttctcgat tcactgacag taaacgctat gaaaaggact tccagagctg 300
ttttggattg catgagactc gttcaggaga catctgcaat gcctgtgtcc tgcttgtaaa 360
aagatggaag aagttgccag caggatcaaa aaaaaactgg aatcatgtgg tagatgcaag 420
ggctggaccc agtctaaaga ctacattgaa accaaagaaa gtgaaaactc tatctgggaa 480
caggataaaa agcaaccaga tcagtaaaact gcagaaggaa tttaaacgtc ataattctga 540
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ttttggggaa gtccctcattg acacacatct cttcaagcct tgctgcagca ataagaaagc 780
agctgctgag aagccagagg agcagggggc agagcctctg cccatctcca ctcaggagtg 840
gtgactgagg tttttatgta gaaggggaac aaaaaaaaaa awctgaattt tgaaaaccac 900
aaagstacaa aatgn 915

```

<210> 451

<211> 1862

<212> DNA

<213> Homo sapiens

<400> 451

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cggcacgagt gggctccac ctaccctcat gacctccttt tgtgaaatgc tgaaagggtc 180
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aggcatacta ttctgtgaag gattgactga gtttctccta ataccaagca gtatctgagg 480
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gtacatattc cttcaagcag ccattacacc tctcataaat ttattatata cctgcatttt 720
tataactatt atgcttttta attgttgccc accattttta gtgcttctga attgttatgg 780
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```

319

```

acagtatcaa ggtataggaa ttttactgta tttgactttt tttctctctc ttccagtgac 1680
aatcatagga ggcacgcgtt ttttggcgtt tgcattttct gcactattta taagccctga 1740
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aa 1862

```

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<210> 452
<211> 800
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (303)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (756)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (794)
<223> n equals a,t,g, or c

```

```

<400> 452
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accagtaaag atcggacgtg atggacagga aattgaactt gaatgtggaa cccagctttg 180
tcttctgttt cccccgatg aaagtattga cttgtatcag gtcattcata aaatgcgtca 240
caagagaaga atgcattctc agccccgatc acgaggacgt ccatcccgcg agaaccagtc 300
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aggattgact atccccctga gtttcaccag agaccagggg atttaaagga tccacgatac 420
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aatgattatg tgagggaatt tcataacatg ggaccaccac caccttggca aggaatgccc 540
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cctcaagctc atcccccttt acttcaggga catcatccag ttaccacatg gaagcaaggt 660
tacagagatw aaacggagtt acatggatta tgatwttgag ggggtgggatg gatttttcctt 720
tcgttcggca cacaagggtg tttgttcagt gggccnggag aagttaggac ccccgtagaa 780
aggaggaccc gggnacgggg 800

```

```

<210> 453
<211> 2106
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (2093)
<223> n equals a,t,g, or c

```

320

<220>

<221> misc feature

<222> (2094)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2096)

<223> n equals a,t,g, or c

<400> 453

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ccgctgtgtc cgggtgggtg gtcagaatgc cgtgctccag gtgttcacag ctgcttcgtg 120
gaagaccatg tgctccgatg actggaaggg tctactacga aatgttgctt gtgccaact 180
gggtttccca agctatgtga gttcagataa cctcagagtg agctcgctgg aggggcagtt 240
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gtagcatttg gtgcttgacg tattattgtc ctttgattcc aaataatatg tttccttccc 1980
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aaaaaaaaaa aaaaaaaaaa attaataaaa aaataaaaa aaaaaaaaaa aannanaaaa 2100
aaaaaa
```

<210> 454

<211> 2288

321

<212> DNA

<213> Homo sapiens

<400> 454

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aatccctttt aaattttctt agagaaattt ctctgtggct cagttttacc acccataaag 2040
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gtaaactcag ttctgtaatc tgtattattg agatgattaa tataaagttg tatttttact 2160
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2280
aaaaaaaaa                                     2288

```

<210> 455

<211> 2361

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

322

<222> (2256)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2260)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2288)

<223> n equals a,t,g, or c

<400> 455

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cgaggtgcag gaaatgtgtg aaacagctgt tgaatatgct ccagattatc aaagcttttg 300
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tgaggctgca atggagcttt gtaaatcttt attggaatca tgcctatta actgccagtt 900
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gtcctcaaaa ccggaagcaa tgaacatgat cctcttcggg tggataaatg aacttcctgt 2160
ttggcctgct tctaggccct gccagattct cataacatca tatacgtaa tatagttcct 2220

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323

caaagtgact gacatttatt ttaattttgc tttgtntttn ttawtttct ccccatcc 2280
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gggatttaat atccagggt g 2361

<210> 456
<211> 957
<212> DNA
<213> Homo sapiens

<220>
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<222> (26)
<223> n equals a,t,g, or c

<220>
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<222> (32)
<223> n equals a,t,g, or c

<220>
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<222> (41)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (49)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (50)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (61)
<223> n equals a,t,g, or c

<220>
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<222> (64)
<223> n equals a,t,g, or c

<220>
<221> misc feature

324

<222> (67)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (70)
 <223> n equals a,t,g, or c

<220>
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 <222> (73)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (75)
 <223> n equals a,t,g, or c

<400> 456
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 gctgcgtgta ctgctgggcg gcttcttcgc gctcgtgggg ttggccaagc tctcggagga 180
 gatctcggct ccagtttcgg agcggatgaa tgccctgttc gtgcagtttg ctgaggtgtt 240
 cccgctgaag gtatttggct accagccaga tccccgaaa ctaccaaata gctgtgggct 300
 ttctggaact gctggctggg ttgctgctgg tcatgggccc accgatgctg caagagatca 360
 gtaacttggt cttgattctg ctcatgatgg gggctatctt caccttggca gctctgaaag 420
 agtcactaag cacctgtatc ccagccattg tctgcctggg gttcctgctg ctgctgaatg 480
 tcggccagct cttagccag actaagaagg tggtcagacc cactaggaag aagactctaa 540
 gtacattcaa ggaatcctgg aagtagagca tctctgtctc tttatgccat gcagctgtca 600
 cagcaggaac atggtagaac acagagtcta tcatcttggt accagtataa tatccagggt 660
 caaccagtgt tgaaagagac attttgtcta cctggcactg cttcctcttt ttagctttac 720
 tactcttttg tgaggagtac atgttatgca tattaacatt cctcatgtca tatgaaaata 780
 caaaaataagc agaaaagaaa tttaaatcaa ccaaaattct gatgcccac ataaccactt 840
 ttaatgcctt ggtgtaagta tacctctgaa cttttttctg tgccctttaa cagatatata 900
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<210> 457
 <211> 923
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (886)
 <223> n equals a,t,g, or c

<400> 457
 aattcggcac gagggcaatc cgggcttgca gacgaggtaa ggctcgattcc atttggcccc 60
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 ctctcggccg cactcgcgct gtacgggccg ccactggacg cagttttaga aagagcgttt 180
 tcgctacgta aagcacattc gataaaggat atggaaaata ctttgcagct ggtgagaaat 240

325

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atcatacctc ctctgtcttc cacaaagcac aaagggcaag atggaagaat aggcgtagtt 300
ggaggctgtc aggagtacac tggagcccca tattttgcag aatctcagct ctcaaagtgg 360
gcgagactt gtcccacgtg ttctgtgcca gtgcggccgc acctgtgatt aaggcctaca 420
gcccgagct gatcgtccac ccagttcttg acagcccaa tgctgttcat gaggtggaga 480
agtggctgcc ccggctgcat gctcttgctg taggacctgg cttgggtaga gatgatgcgc 540
ttctcagaaa tgtccagggc attttggaag tgtcaaaggc cagggacatc cctgttgtca 600
tcgacgcgga tggcctgtgg tkggtcgctc agcagccggc cctcatccat ggctaccgga 660
aggctgtgct cactcccaac cacgtggagt tcagcagact gtatgacgt gtgctcagag 720
gccctatgga cagcgatgac agccatggat ctgtgctaag actcagcaa gccctgggca 780
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<210> 458

<211> 3058

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (27)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (418)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3045)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3053)

326

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3056)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (3057)

<223> n equals a,t,g, or c

<400> 458

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taaatacact taatttcaca atacattgtt atatgtaccc cagttgttgt tagtggggac 180
tatgatactg taataatatt tttaaaaatt tacatcaaga gaggcagtca ttcacgatgg 240
ttttgtgcca gctcttttta gggttttgga tcacattaga gatatttaga acatattacc 300
ctgtgactta cgtaggaaac ctaatatgct gagtatctgg cacttgaatt cctgctttta 360
ttgctggagg tccacatctg tggttgacct ctgttattgt ttaaaaaaaaa taaataanaa 420
ttaaaaaaat ctgtgcaata attttaaaat gtgctccag gaatagacac aaatgttttg 480
cagtatcttt taagctgcat tttcctttag tgatgcattt gtcaattgca ctgaatttaa 540
atctgaaagt cagagggtgat tattgatagt acttttgtat ttgatattgg acagtttatt 600
catttgcata cagttattga ctttttccca gctgattaaa agatagtcaa gaaattctgc 660
aatatagctg ccaaaataga cagctacatt tttatgatat tgtcatcttt tctgttlytt 720
ttttcttttt tttcttttagc tattttactt aagcataata gccacaatag gacatataaa 780
agattataaa tacagagctt tattatcctg acgtcttggg tcttttaagt atatactttt 840
ctgaaaggta tccattttgt aggcttgggt tcttcattgag catacgattg tttatttttg 900
ctgctgttct caacatcctc attgcctgct gatgtgccac gatgctgctc caatagacag 960
caataagatt gtctctaatt tgagcagtaa catgattgca agagaccaag tttcacagct 1020
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agtggaccaaa cattgtggca tggcagcaaa tgccaacatt ttgtggaata gcagcaaact 2040
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atcagcaggg atggaaggag ggtaggggag ttatgaatta ctcttccag tagtagctct 2160
gaagtgtcac atttaatatc agtttttttt aaacatgatt ctagttaaatt gtagaagaga 2220
gaagaaagag gaagtgttca cttttttaat acactgattt agaaatttga tgtcttatat 2280

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327

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cagtagttct gaggtattga tagcttgctt tatttctgcc tttacgttga cagtgttgaa 2340
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tcttttggaa ttccggataa gttcaggaaa acattctgca tgttgatatct agtctgatgt 2460
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gaatacggaa gtaaatcttc ttcttttcctg actttgacat tgtagctata ctgtttccat 2580
ttttgttttt acaaatcctt tgggtctaata tctgtgagcc tacctatagc actggattaa 2640
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ccagcccatg acagggtttt gtacatgtta aagaacttca ttgttcagtt ttcattgatta 2760
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actgtaattt gaatcagatc tgaaagaggt ccagaataaa atatatatttg atattaaaaa 3000
aaaaaaaaaa aaactcgagg gggggcccgt acccaatcgc ctgtnatgta tcntannc 3058

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<210> 459

<211> 555

<212> DNA

<213> Homo sapiens

<400> 459

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aaactggaac aatgaaaccc aaacactttc accacacttt gggcttttga tttctcacar 60
rgggargtta accmaactyc caaaggttta ataccycaaa cmccttcccc ttgagtgtga 120
cycacattgt taggtgctga cctagacaga ratgaactga ggtccttggt ttgttttggt 180
catatacaaaa ggtgctaatt aatagtattt cagatacttg aagaatgttg atggtgctag 240
aagaatttga gaagaaatac tcctgtattg agttgtatcg tgtggtgtat tttttaaaaa 300
atthtgattta gcattcatat tttccatctt attcccaatt aaaagtatgc agattatttg 360
cccaaagttg tcctcttctt cagattcagc atttgttctt tgccagtctc attttcatct 420
tcttccatgg ttccacagaa gctttgtttc ttgggcaagc agaaaaatta aattgtacct 480
atthtgtata tgtgagatgt ttaaataaat tgtgaaaaaa atgaaataaa gcatgttttg 540
ttttccaaaa aaaaaa 555

```

<210> 460

<211> 612

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (595)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (599)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (600)

<223> n equals a,t,g, or c

328

<220>
 <221> misc feature
 <222> (606)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (612)
 <223> n equals a,t,g, or c

<400> 460
 ggccactcag agtgggtgtc ttgtgtccgc ttctcgccca acagcagcaa ccctatcatc 60
 gtctcctgtg gctgggacaa gctgggtcaag gtatggaacc tggctaactg caagctgaag 120
 accaaccaca ttggccacac aggcctatctg aacacgggtga ctgtctctcc agatggatcc 180
 ctctgtgctt ctggaggcaa ggatggccag gccatgttat gggatctcaa cgaaggcaaa 240
 cacctttaca cgctagatgg tggggacatc atcaacgccc tgtgcttcag ccctaaccgc 300
 tactggctgt gtgctgccac agggcccgagc atcaagatct gggatttaga gggaaagatc 360
 attgtagatg aactgaagca agaagttatc agtaccagca gcaaggcaga accaccccag 420
 tgcacctccc tggcctggtc tgctgatggc cagactctgt ttgctggcta cacggacaac 480
 ctggtgcgat ktggcagtga ccattggaca cgctagaagt tatggcagac ttacaaataa 540
 aaaaaaactg gctttttgaa aaaaaaaaaa aaaggcgggc gtttaaagac caacntacnn 600
 ccctgnttca an 612

<210> 461
 <211> 882
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (852)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (877)
 <223> n equals a,t,g, or c

<400> 461
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 gaagagatca tcaattatga aatttgaaca ccaagggacc tgggtgtgcct gggcctgagc 120
 agcatcgttg gcgtctggta cctgctgagg aagcactgga ttgccaacaa cctttttggc 180
 ctggccttct cccttaatgg agtagagctc ctgcacctca acaatgtcag cactggctgc 240
 atcctgctgg gcggactctt catctacgat gtcttctggg tattttggcac caatgtgatg 300
 gtgacagtgg ccaagtcctt cgaggcacca ataaaaattgg tgtttcccca ggatctgctg 360
 gagaaaggcc tcgaagcaaa caactttgcc atgctgggac ttggagatgt cgtcattcca 420
 gggatcttca ttgccttgct gctgcgcttt gacatcagct tgaagaagaa taccacacac 480
 tacttctaca ccagctttgc agcctacatc ttcggcctgg gccttaccat cttcatcatg 540
 cacatcttca agcatgctca gttatgagga gtcaaactct aaggatccag cggcagtgac 600
 agaatccaaa gagggaacag aggcacagc atcgaagggg ctgggagaaga aagagaaatg 660
 atgcagctgg tgcccagacc tctcagggcc agaccagaca gatgggggct gggcccacac 720

329

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aggcgtgcac cggtagaggc acaggaggcc aaggcakctc caggacargg cagggggcag 780
caggatacct ccagccaggc ctctgtggcc tctgttttcc ttctcccttt cttggccctc 840
ctctgctcct cnccacaccc tgcaggcaaa agaaaanccc ca 882

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<210> 462
<211> 733
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc feature
<222> (640)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (660)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (677)
<223> n equals a,t,g, or c

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```

<220>
<221> misc feature
<222> (687)
<223> n equals a,t,g, or c

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```

<220>
<221> misc feature
<222> (711)
<223> n equals a,t,g, or c

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<400> 462
tccccatggt tctcctacct aaatgattgg tttccctatg gctattttctc caagagttaa 60
gggatagctg cttaactatg cacctttaca gaacattctt agcagtaatg ctcaaattta 120
aaaggcacac tcaagatact tccatgtcat ggatccttcc ccagggtccca gtartataaa 180
tatagggaag aggttagcat gaacttacwa attgttttaa gtaatcctct tgaatgccag 240
tcattaaagg actttgcccct tctacatcaa attacatcct tttcacaaat ccccatctct 300
gtaataactg gtgcaaacct aaagggtgctt tatagtttta ctactttgca gatttgcaat 360
gctgcatata atgcagaaga gcattaaaaa cttttgtaaa aactcatgat tttgataaac 420
ttttaaagta gcgtttatat gtaaatagaa ctacacatgg gcacacacac ttgcacargg 480
gcttcagaaa aacgtgcaat atagggtgagg aaaaatgtct attgaaactt tctcacaggc 540
tgcccttatt aattaaaact agtggttggg gcaagcaaca tctgtttcca agtaggttca 600
ggggactagg caaaccttaa agggcggcag gcggcctgcn gtttgcttca ttccttaggn 660
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tttgtggctt ttt 733

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<210> 463
<211> 574

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330

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (18)
<223> n equals a,t,g, or c

<400> 463
ntctcaatta aacaaaanaa aaaagtggag aactggcagt gacctctact gggggccatg 60
gcagggaggg gagccttctg gaagggctgc ctgggagatt ggaatgggga ctcccaggga 120
gacctgcgtt ccatccctgc ctgcctcacc cctgccacag actctgcaca ccaactggatg 180
gtgggtccaa gcctggcaca gtccctgtgc ttgtcagagt cattattatg attaatatca 240
attacgatgc caaaaattgc tgggcaaact ttgaagacct caacttggtt caatgacgat 300
gatgatgatt cttggcgggt acacaatcct tcctcctggg ggggaggcag ctaggaggcc 360
cagcaggggg gcttctatgc tgctgggctc ccctaggagg ttggggtagt ctgtgccaac 420
tccaggcagc tgctgtggcc tcacccctgg gcccccaat tttgggtcat ccctcctcaa 480
atacactatt tttgcttgta tgctgtgtc atttgttggg tgtacagagg ggatataggg 540
agagtggtag gcttcccaca cagaaactag gaca 574

<210> 464
<211> 691
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (7)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

<400> 464
gtacnngant cccgggtcga cccacgcgtc cgcggaaggt ccttctgaat cccttccctg 60
ttccttaggt tgcactagtc ggggggtcca tgctgggggg cagaaggaat gctctctacc 120
gtctgaaacc gttcatcagg aaggccttga tttgtgatgt gctaggagag cacaggatct 180
gcaaatagaa ggcacctgtc tcccttctgc aggccgagga gaggccgcca tggactgtgt 240
gcttcttcat ggcttgttta ctcttcttct acagacccta cagcttgggg cctgggctcc 300

331

```

tctgaccatc ctcattgaga aaggaaagtg agtccagaga agttgatgct tcctacctgt 360
tggagcggcc cagcagtgtg agcgtgggtg ttactgcccc atccgccatg tccttcagtg 420
ccaccattct cttctccccct cccagtggca gcgaggccag atgctgctgc tgcgcctgta 480
agagtgaagc taatggaggc aacacaggct cccagggtgg gaatcctcct cccagcacc 540
ccatcacagt gactggacat ggcttggctg ttcagagctc agagcagctc ctgcatgtta 600
tctaccagcg ggtcgataag gcagtgggtt tggctgaagc tgctctgggt cttgccaggg 660
ccaacaatga gttgttaaaa cgtcttcagg g 691

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<210> 465

<211> 260

<212> DNA

<213> Homo sapiens

<400> 465

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atgagtcaca tttattgatt tgcattgtgt gaatcaacct tgcattcctgg ggacaaagcc 60
aactccattg ttgcratga actttttaat rtgctgctgg atttggcttg ccagtatttt 120
attgaggatt tttgcacagt gttttacaaa gacattggca tgatgtgttg ttgttgttgt 180
tgttgttgtg gtatctatga taggttttgg tatctggatg atgctggcct gataggaatg 240
agttagagag aacttcctta 260

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<210> 466

<211> 851

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (584)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (727)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (755)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (761)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (793)

<223> n equals a,t,g, or c

<220>

332

<221> misc feature
 <222> (825)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (842)
 <223> n equals a,t,g, or c

<400> 466
 gcgttcgcgt ggggtcccgcc cccacactcc gccagaggg gcctcagctt ttccaccact 60
 gcttttctagt cctttaactc ctagaggcaa actttttgggg gataagaaag cctgggaggg 120
 gcctgtgccaa aaaccctctc tgcctgggga ctgggcggtg attccgcttc tgcctgggct 180
 cctgccatgg cccccgagag gggctgacac tttagctccc ggtgcaggtg agaaccgcc 240
 cggaggaaga aggaaggcgc gggccgggga ttaggagacg gaggcggact cggagccagg 300
 gaaccagggg tccgggctag agctggagtc gtgagcgcgc gcccgccccg ctctgggagg 360
 accgcgagat gcccgtagtg aagcagctgg gccccgcgca gcccaagaag cggcctgac 420
 gcggcgccct gtccatctcc gcgcgcctcg gcgacttccg gcacacgctg cacgtggggc 480
 gcggcgccga cgccttcggg gacacctcgt tcctgagccg ccacggcggc gggccgcccc 540
 cgagcccccg gcgccccccg cggggggcccc gckctccccg ccgncgcgcg cgtccgcagt 600
 ccgcagcgcc tcgcctgcga cccgctgtgc cttcacctgg atctggggcc tcattgctgga 660
 cgcggtgctg gcgtatggac gcggcgcgcc gaagcggctg cgcaagccac gcgaaccgc 720
 ccggacnagc cccagccgtg cgccacgcga ctcantacac natggcttag tctatccggc 780
 tccgccgacc atntgtctaa cgcagggggc gaaaaaaaaa aactngggcc gaccatcgct 840
 tnggcacat t 851

<210> 467
 <211> 503
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (498)
 <223> n equals a,t,g, or c

<400> 467
 ggcgagacc ccgatccccg ctgcgggtca ctagtgtctc agaccagaat gacagagtgg 60
 ttgagtgccaa gctacagacc cataacagca agatggtgac cttccgattt gatctggatg 120
 gggacagccc ggaagagatt gcagctgccaa tggatatataa cgagttcatt ctgccttcgg 180
 agcgagatgg atttctcaga cggattcggg agattatcca gcgagtggag accctgttga 240
 agagagacac tggccccatg gaggtgctg aagacaccct aagccccag gaggagccag 300
 caccattacc tgccctgccc gtccccctcc cagaccatc caatgaagag ctccagagca 360
 gcacctccct ggagcacagg agctggacag ccttctccac ctcccttcatt ctttcttcc 420
 gggaaactcct ttgtctcctg ggaaacccat tttccccctg aacccccatt ttccccagg 480
 tcccatkttt ccccatcnat ttt 503

<210> 468
 <211> 1905
 <212> DNA
 <213> Homo sapiens

333

<220>
 <221> misc feature
 <222> (933)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (940)
 <223> n equals a,t,g, or c

<400> 468
 ggcacaggac cagtggagtg agctgttcat ggatgcgcta gggcccttca acttcgtgct 60
 ggtgagttcg gtgaggatgc aggggtgtcat cctgctgctg ttccccaagt actaccacct 120
 gcccttcctg cgagacgtgc agaccgactg cagcgcgact ggcctgggcg gctactgggg 180
 taacaagggt ggcgtgagcg tgcgcctggc ggccttcggg cacatgctct gcttcctgaa 240
 ctgccacttg cctgcgcata tggacaaggc ggagcagcgc aaagacaact tccagaccat 300
 cctcagcctc cagcagttcc aaggggccggg cgcacagggc atcctggatc atgacctcgt 360
 gttctggttc ggggacctga acttccgcat tgagagctat gacctgcact ttgtcaagtt 420
 tgccatcgac agtgaccagc tccatcagct ctggggagaag gaccagctca acatggccaa 480
 gaacacctgg cccattctga agggctttca ggagggggccc ctcaacttcg ctcccacctt 540
 caagtttgat gtgggtacca acaaatacga taccagtgcc aagaaacgga agccagcttg 600
 gacagaccgt atcctatgga aggtcaaggc tccaggtggg ggtcccagcc cctcaggacg 660
 gaagagccac cgactccagg tgacgcagca cagctaccgc agccacatgg aatacacagt 720
 cagcgaccac aagcctgtgg ytgcctcagtt cctcctgcag tttgcctttc agggacgaca 780
 tgccactggg gcggctggag gtgggcagat gagtgggtgc ggcccagagc ggcggtgggtg 840
 aggttaccgc wtggaaacak tkttcgscgg cagytccctg gactggatcg gcttataccg 900
 ggtgggtttc cgccattgca aggactatgt ggnntatgtn tggggccaaac atgaagatgt 960
 ggatgggaat acataccagg taacattcag tgaggaatca ctgcccagg gccatggara 1020
 cytcwctctg ggctacyata gtcacaacca cagcatcctc atcggcata ctgaaccctt 1080
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 tcctggcaag tccaagcgac accgcagccg cagcccggga ctggccagggt tccctgggct 1260
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 ggggctggag gaagggggcc tggggccctg aggggtgggt aggcagatgg gccaaaggtga 1620
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 tgtatctgca cctgcctctc tgtcctggcc aggggtggac aactggggtc ccccaaaaact 1740
 cagtccctggc acctcaactg tgacaatcag caaagcccca cccaggcccc catctgggat 1800
 gatgggagag ctctggcaga tgtcccaatc ctggaggtca tccattagga attaaaattct 1860
 ccagcctcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 1905

<210> 469
 <211> 775
 <212> DNA
 <213> Homo sapiens

<400> 469

334

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ggaagaaagt acactaacac ttctaggagc ctcttctcag aattgtagtt attccaaaat 60
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ttgattaatg atggtaaaaa ctaaaaaaaaa acagagtttt ctattaaaat agcctatggc 180
cttggctaag acagctatcc tagtaagatt atcttatttt ctatttatag acacatccac 240
tyaaactgca tttttatcca gcgttgatct tcacactcac tggtcctatc aactcatggt 300
gccagaggcc attgccattg tttgctcacc aaagcataaa gacactggca tcttcagggt 360
caccaatgct ggcattgctg aggtttctgc ttgtaaaaaa aagggttttc atccacacac 420
caaggagccc aggtctgttc gtatatgcaa acatgtgttg gtaaaagaca taaaaataat 480
tgtgttggat ctgaggtgat atgttctgaa tgtaagcacc gtcaacatca gacacctact 540
catggacatg tgggtgcccgg attttcttaa gatgtttcca gaaatgactg atattttata 600
tttatacatt ttagatgaca aagcttgata ttatttgctg ttgcacattt taaagttttc 660
tttttgggtt gctctgtgtc aagagaggtt acatggtgtt aaatcggtac ctgataatgt 720
acccaaatac tatggccaga taataaattg tgctgcaaam aaaaaaaaaa aaaaa 775

```

<210> 470

<211> 1297

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<400> 470

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tccgnaattc ccgggtcgac ccacngntcc naatcaagct ctaagtcttt ggaccctctg 60
tggaacattt tctaaccgga attttaattt ggctttttca accaaaggct tagagtggta 120
gcaagggtat tcttccaata ggaaacctga tgtttctgat ttaaagagaa ggtgatat 180
taattgtttg aattaagctc cttgcaaaagt tcgggtgtgt ttaccactt agggctttct 240
ttcccagtca acgctaacac attttgttaa atgatccctt tccctgctca cattgtgtgt 300
catttctcat catcagtagt cctccagcct gggcagctgt cccaccctt tttcatgtag 360
gtgcaggaag ttaaatctca tttccaggat gcatgtgaac atttaciaag ttgaactttg 420
agtgcattct gctcatatga attattggga ttgttgatat atattgtatt atgctaccaa 480
agaaatattg gttttattag aaggaaatgg tcatcctctg gaccatggag actagctcag 540
aatacgtctg tttccctctc ctgactttgc caagcctttg gctgcttttg cctgataaa 600
ggcaggggcca tctgaagaca cttccccccag tcggcttttg agtcacggga gctagtgcct 660
gctcacacat ttttcaaaag ggcagtgcac tcagaacttc actgtacctg ggatttttaa 720
ttcctcttgc agtggtgacc agcagagaga cttgaggcta ctttaagcct ccatatgtgt 780
ttttagataa aaattctcca ttcaaacatt ttaaaggact ttgaacatta tctgcttatg 840
gaagttgtgc ccttcacttg gtttagtaacc acctcagcca taatacttac catcataggt 900
ttcttaaaat gctttttttt tttccctaaa cttgagtttc cttagtgtatt tcaaaatgaa 960

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335

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gtataagaat atcagatcca gttagcaaaa gcctaggact tgtttctcca aacattgtac 1020
taacattcaa cttgttttaa aattatgact caagaatttt aaaaaattat tctggacatg 1080
aattaaaact tttttataat ataagtattt ttctgattga aaaaaggata taattgactt 1140
cactctaatt gtcattgtata ttcccataag taaatggatt ttgaagtatt tttatttttt 1200
gaacttttatt taaagcattt gtgatgacat gttcaacttt tgcattgtatg tagcctttga 1260
agtaaaaata aataggaatg ttaggctcac gttaaaa 1297

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<210> 471

<211> 2155

<212> DNA

<213> Homo sapiens

<400> 471

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aatatagtaa tttttaaatt tgttaataat gaaaaccctt aagcatgcag gatgaggtat 60
ttgggttttt tttttagatc gatcacatct acagaaaatg gctaaaccaa gttaactttt 120
attatagaca gtgaataaaa caccaaaaac caaaaaatgc ttttaaccaca gtataaataa 180
tagattatac acatcatctt aataactatt ttttaagttat ttaccatagc ctctgtatag 240
accttaggaa cagtgtttca gtgatctggc accagtttat tttgttctgc tgaaattctg 300
tatcacaat gtgctacctg gtttttgtcc attagataat tactctttat aaggaaagga 360
aagagaagca gagttagttc cagctctaata agggatcttc aaagttattt tgtcttgatg 420
tatgtaacag taattcttta catcttttga ttttctctt cctttttatt cactcttccc 480
acgaatttaa atgtttaagt tatattcatc actagcaagg atgrtaaaca cttgtgcact 540
gaaagctaac agggagaggg tacacaatat ttacagktt cttaaacata atttartgca 600
tcaccttcca cttgctaaca taccaagtca gttattttca agggaagaac cttttaaatt 660
atggctctcc atttactact tccactgaga gtatgctctc attcctcagg tgttttgaga 720
aacatgacta ataaccacac aattaagtag agtcattcca agtcctatgg cctggaaatt 780
gtattcccta taatatacaa attttccctgt aataaagtca acttagaaac tccaaggagg 840
ttacatgttt tccaacatat cctaaaaact gtgatataag ctaacatata atttgcctta 900
cgtcaaaaga atatgttttg ttgcagctga ttccagttta taatagatcc ctagtaaaaa 960
gctttgatcc aacacaattg ttcatcttca catcccaaac agaactactg tttcttgaat 1020
atatattttt gaagtttttt tgtgcaatat attactaaat cagttattat tttacttttc 1080
caaattcaga gaaagaaaac agattacctg aattcatgga aaaggtggat cacctccctt 1140
tttccacctt caagcctttc ctgtcctcat agccagcatg acttctttta acttggattc 1200
ctttgtatat agtaaagttt agtatatata ttttttttct tttttgctac tttctgagge 1260
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agagaatgtg ttaaggaggg aatgtatatg tcttggtaga ccaggaggcc tttgccagca 1380
atttaagcaa cagatgtgaa tacttcacaa agctgtaaag accattgtct taaatactac 1440
aacaacttaa cacccttttg tgaagatcac agcatttatc taagaaactg tgaggctttc 1500
tgggtttacat atatcttaca ggtgtttttt tgtatttttt ttttttttta gtttgaaatg 1560
tgtaagcttt gatttaaacc aagtttactt cagtatgtta atgatgtagt aaaaatatat 1620
attgaaaggt gaattcgagt attttaatgt tatacctgcc attttttttc ttaaagcata 1680
ttctttgcat ctaactgcca gtgccattgt caaaacttat tttttaaatc gttgtacatt 1740
tcttattaaa ctaagtgtct aatttttaaag tattatgttg ccatcatata gtgtataaaa 1800
atgtataatt gccaatgtat tgtaactatt atttattttt aaatgaaagt gtaagaatgc 1860
tttctgattc aacaaatttg ttatcaaaact gtttccttat cctcttttct gatgtagcat 1920
aaaaattgtc ccggttttgag ttataactgc cagtagatga ccagtcacaa gtgaaccact 1980
tctcagttgc caatctttgc tcatattaaa aacaacttac aaatacttag tttttgtatc 2040
taatctctga ttattaaaaat gtttataaaag tttattttta ccaaagagat gcaattcatt 2100
atgagaaagt attgcataat aaattttgtt ttataacttt aaaacctgtg ccgaa 2155

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<210> 472

336

<211> 459
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (368)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (416)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (437)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (447)
 <223> n equals a,t,g, or c

<400> 472
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 ccggtaactt gtggagggggc ggcctgacaa aggccggggcg cggaggggacc gtgcgaggag 120
 cagtgattga wctgccgtcc aatcccagct ctgccgtga ctagttttga aacctgtaga 180
 aaggctccgt gtctgtttta attaccggtc cccccaggat tgtttcaaga attcagtagc 240
 tgaggctggg agtggtggct ttgtaatccc agcgctttgg gaggcctggg cgggaggatc 300
 gcttgagccc gagaccggcc tgggtgacat ggtgagatct cgtctctaga ggaatgcaaa 360
 gggtggcncg ggcgtggtgg cgcacgcctg tggtcgccgc tgcttggggc gctggngtgg 420
 gaggattgct tgaccnnga ggtcaanggc tgcactgca 459

<210> 473
 <211> 710
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (65)
 <223> n equals a,t,g, or c

<400> 473
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 tgatncaatc ccaggatgtg agtggtgtctg aagatacatt cccaaataaa cgacctaggc 120
 tagaagataa gactgttttt gacaattttt ttatcaagaa agagcaaata aaaagcagtg 180
 gtaatgatcc aaagtatagt acaaccacag ctacagaattc cagcagttca tccagtcaga 240
 gcaaaatggg taattgcccc gtttgtcaga atgaagttct ggagtctcag attaattgagc 300
 acttgggactg gtgccttgaa ggtgacagca tcaaagtcma aagcgargaa agtctttgaa 360

337

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aaagggtttca aagtctcaag taccacctgt attatctcac taatgtgcta tgtcagccag 420
tcaggaagtt ctggttaata ctaagatttg taggttataa tctagttcac ataaccaata 480
gaaagtgtcc tattttatat atacgcatat aagattgtaa ttttaagatg ttttgtgtct 540
caggggtgcta cattcactct tgccttaggt atactgtaac ccaggttctg cctgtcgtgt 600
ataattttta gatacttttg ttctttcttg ctcttaagga ttttaaaaac ctgktaatct 660
ttttatttgt atactttcct aaaaatatc atatggggaa tcctgtcaaa 710

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<210> 474

<211> 1279

<212> DNA

<213> Homo sapiens

<400> 474

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gcccacgcgt ccgccgcaag ccaacagggg tgtcgtgcgg tgggagtact tccgcctgcg 60
tcctctgcgg ttcagggccc ctgcactgag gctgcagaag tcccagtcac ctgatctgct 120
ggaaagggag agggagagtg tcctgcgccg ggagcaagag gtkscagagg agcggagaaa 180
tgctctcttc ccagaggtct tctccccaac gccagatgag aactctgacc agaactccag 240
gagctcctcc caggcatccg gcatcacggg cagttactcg gtgtctgagt ctcccttctt 300
cagccccatc cacctacact caaacgtggc gtggacagtg gaagatycag tggacagtgc 360
tcctcccggg cagagaaaga aggagcaatg gtacgctggc atcaaccctt cggacgggat 420
caactcagag gtccctggaag ccatacgggt gaccgcgtcac aagaacgcca tggcagagcg 480
ctgggaatcc cgcactctac ccagtgaaga ggatgactga gcctcgggat ggggcgcccc 540
ccccctgccc tgccctgacc ctgctgggaa ctgccaaagac catcgccaag cccccacct 600
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atgggcacat ttgggactgt tgggttttct gtttccgttt ctatcttctt ttagaaatgt 720
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agatcgcagc accttgaggg gctgcgggtc tgagggagga gacactcagc tcctccctct 960
gagaagtccc aagctgagag gggagacctg cccctttcca accctgggaa accatccagt 1020
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ccttggtgca cccagccaca cctggtggac acaaagctct cacatcgata ggatcccatg 1140
aggatggtcc ccttcacctg ggagaaaagt gaccagttt aggagctgga ggggggtctt 1200
tgtccccac ccccaaactg ccctgaaata aacctggagt gagctgcca aaaaaaaaaa 1260
aaaaaaaaaa aaaaaaaaaa 1279

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<210> 475

<211> 480

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (354)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (371)

<223> n equals a,t,g, or c

338

<220>
 <221> misc feature
 <222> (470)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (475)
 <223> n equals a,t,g, or c

<400> 475
 tgactcgcag tggagtcagt caacaaccca ggtctcctgg ctcttaagac gtttcctttt 60
 taatattata ggaatgggaa tgctggctcc ttttacagta ctgggtccctt tacactgtac 120
 tgcatactcg ttttttcagt ggatatatga gcttcttgctc aaaattatgt ggggtcccatg 180
 aagaaacatc taaccagggg aaggggggaag gattgagaca taagacgtac ttatataaga 240
 tttctttttaa gaattccaat cttggacatg tttaaattttt ttatatatttc tcatgtttta 300
 atctcagttc gtttttcatg ctgtgctcag cacgtaagtg tgggggaaatg gacnaagggg 360
 gctgcgggaa ngaccgctgg ctgggctcaa catgcctgtg ccttttcccc ttcatgtgtt 420
 cttgtgtctg atgcattctc aacacagaat gacattttac tgtttttcan aaaanaacct 480

<210> 476
 <211> 947
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (3)
 <223> n equals a,t,g, or c

<400> 476
 ttngggccgag cttgggtcat ggcgggcgccg ggcgcgctgc tgggtgatggg cgtgagcggc 60
 tcgggggaaat ccaccgtggg cgccctgctg gcatctgagc tgggatggaa attctatgat 120
 gctgatgatt atcacccgga ggaaaaatcga aggaagatgg gaaaaggcat accgctcaat 180
 gaccaggacc ggattccatg gctctgtaac ttgcatgaca ttttactaag agatgtagcc 240
 tcgggacagc gtgtggttct agcctgttca gccctgaaga aaacgtacag agacatatta 300
 acacaaggaa aagatggtgt agctctgaag tgtgaggagt cgggaaagga agcaaagcag 360
 gctgagatgc agctcctggt ggtccatctg agcgggtcgt ttgaggatcat ctctggacgc 420
 ttactcaaaa gagagggaca ttttatgccc cctgaattat tgcagtccca gtttgagact 480
 ctggagcccc cagcagctcc agaaaaacttt atccaaataa gtgtggacaa aaatgtttca 540
 gagataattg ctacaattat ggaaacccta aaaatgaaat gacaatgatt ttgtatcagt 600
 ggtccaaaaca gaactaagca taaatcattg tgccatccca aacctcgttc cagccgcctt 660
 gcccatacta gattctaaat gtttctaaag gcaaacccca atgtgtcaag acagacttgt 720
 ttaggtgtaa ttttaggaat tatgctggtt catcaggaag cagaggggga gttttaaaag 780
 tcaagcttaa attgaagttt aaattcatct ataaccaa at caaatgatca gaggaaattc 840
 tgtaatcaat gctggaaatc gttacattgt ttagaacatt cttgctcatg cctgtatttg 900
 cacaaaataaa tgaaacttcg ctgtcaaaaa aaaaaaaaaa aaaaaaa 947

<210> 477
 <211> 585
 <212> DNA

339

<213> Homo sapiens

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<400> 477

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accaggacca cggggcctgg ctgcgcggcg gggatgtgtg gctggacagc tgccggtttg 60
ctgacaatgg cattggcctg accctggcca gtggtggaac cttcccgtat gacgacggct 120
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acatggatgg ggataagaca tctgtgttcc atgacgtcga cggctccgtg tccgagtacc 540
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<210> 478

<211> 3470

<212> DNA

<213> Homo sapiens

<400> 478

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aattcggcac gagaaggatc gggggccctcg ccgctctgtc tcattccctc gcgctctctc 60
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taaagaaaga gatgaagatg atgaagatgg agatggcgat ggagatggag caactggaaa 360
gaagaagaaa aagaagaaga agaagagagg accaaaagtt caaacagacc ctccctcagt 420
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agttagaaaa tacgtaatga gctggatcaa gcctgggatg acaatgatag aaatctgtga 660
aaagttggaa gactgttcac gcaagttaat aaaagagaat ggattaaatg caggcctggc 720
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340

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ataccagaat taatttgcca catgttgtct gttttaacag tggacccatg taatactttt 1620
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gatgtacctt attggcaaca agttattagt ttgatgttta acaatagtgc ctttagtaaa 3420
ttattttaca actaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 3470

```

<210> 479

<211> 637

<212> DNA

<213> Homo sapiens

<400> 479

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ccaatggtgt ttacacaact gcagagcagc gtccgaatgc ctacatccca gaagcagatg 120
ccactcttcc tttgccaaaa ccttatggtg ctttggctcc ttttaaacc agtgaacctg 180
gagccaatat gaggcacata aggaaacctg ttataaagcc agttgaaatc tgaatatgtg 240
aacaatatcca ggctcttcaa ggaaaagact tcaaccaggc ttccttgtac ccacaggtga 300
aaaatgtgag cataatactt ctaatatatt tgataagtaa ggtaaccaca attagtcagc 360
aacagagtac aacagggttt ctattttacc accaactact atacctttca tgacgttgaa 420
tgggacatag aactgtccta catttatgtc aaagtatata tttgaatygc ttatattttc 480
tttttctact tttatatatt gtacattcca gaaatttgta gtaggcaagg tgctataaaa 540
atgcactaaa aataaatctg ttctcaatga agtacggaaa aaaaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaaaagg cggccgc 637

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341

<210> 480
 <211> 1889
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (26)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (57)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1295)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1370)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1844)
 <223> n equals a,t,g, or c

<400> 480
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 tactgatcgc cagaatcgta ctgattgcgc tgggcttcac gggctttttc ttccgccgca 180
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 cgtttcggtc gtggcaactg cggaccaatc cctcttttga cctgaggacg cggtcaccg 300
 ctatttgcca gactgaagac tggcgcgga acggttgagg cagccccgtc gccagtgtcg 360
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 gaatcggttg ataccaggcc gcaagttggt caggttcacg ggctcgcttc tcttcaactt 540
 cttcaaagta gtaaagcggc ggacgcgcgg gttttgtctc ttctacaacg ggttcagctc 600
 cacaacaggc tgctgttcaa cgggttgccg ctgttggtac aacgggytct karcggctgg 660
 ctgctgataa gtttgctcag tctgggtatgt agactgtgra gcaaaagtgg attgctgtc 720
 ttccggcttg caggcggttac ctgccaccgg ttgttctggc gcaggggcat aatacggctg 780
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 taattggcgc accgtttaat aatggatcgt attcgtcata ttctggctgc gttgcacgrt 1140
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342

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ttcgtcatca tcccatccgc tttaccggag aacaacgcag cgtctgtttg ccgccccatc 1260
ggattaatga atttttccgc caaccgtttt aacgnaccta agccgccgcg aagaatacgg 1320
gcacggcgctg attcatgctg tttgcccgtg attttcatct tcatactctn cgtcgtcttc 1380
atactcatct tcatcgaccc aggtatcatc gcgacgggta cgattactgg cgaagggtgag 1440
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aaagaacagc gtatctgcca accacgcacc gggcatccca cctnaattat ggatagggtc 1860
atgccaggcc gtttgcgacc agctggggt 1889

```

<210> 481

<211> 493

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (453)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (472)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (491)

<223> n equals a,t,g, or c

<400> 481

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taacgatttg tgttgtgaga ggcgcaactg cgatttctgc tgaacttgga ggcatttcta 60
cgacttttct ctcagctgag gcttttcttc cgaccctgat gctcttcaat tcggtgctcc 120
gccagcccca gctkggcgtc ctgagaaatg gatggctcttc acaataccct cttcaatccc 180
ttctgactgg ttatcagtgc agtggtaatg atgaacacac ttcttatgga gaaacaggag 240
tcccagttcc tccttttgga tgtaccttct cttctgctcc caatatggaa catgtactag 300
cwgttgccaa tgaagaaggc ttttgttcga ttgtataaca cagaatcaca aagtttcaga 360
aagaagtgct tcaaagaatg gatgggtcac tggaatgccg tctttggacc tgggcctggg 420
ttcctgggga attaaaattg ttacagcagc agnggtcaaa cagccaattt tnggncgtaa 480
aactggtgag ncg 493

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<210> 482

<211> 473

343

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (399)

<223> n equals a,t,g, or c

<400> 482

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ggcggggggag agggaccagg gaaggcgtcg gggggaatct cgcgagggtt ggagtttttg 60
cgagagtttg tggaagatgg cgcctgttgt gacagggaaa ttggtgagc ggcctccacc 120
taaacgactt actaggggaag ctatgcgaaa ttatttaaaa gagcgagggg atcaaacagt 180
acttattctt catgcaaaaag ttgcacagaa gtcatatgga aatgaaaaaa ggtttttttg 240
cccacctcct tgtgtatatc ttatgggcag yggatggaag aaaaaaaaag aacaaatgga 300
acgcgatggg tgttctgaac aagagtctca accgtgtgca ttatttggr taggaaatag 360
tgaccaagaa atgcagcagc taaacttggg aaggaaagna ctattgcaca gccaaacmtt 420
gtatatatct grctcagcca gcgaagactt tcatgttgtc tgtaaagtgt tct 473

```

<210> 483

<211> 851

<212> DNA

<213> Homo sapiens

<400> 483

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ggaactcagt aacgccttga gctgggttga ttgaggatgt gtgaaaagct cacagagccc 60
gatgcctgct gctattttcac ggcaatgagc ctttttcttt ctacactgaa gattttcttc 120
ttatttaaatg tggtttattt tgggctcaga aataattgct ctgttgaaaa taatcctttg 180
tcagaaaaga aggtagctac cacatcattt tgaaaggacc atgagcaact ataagcaaag 240
ccataagaag tggtttgatc gatataattag gggtagctct tgattttggt aacattaaga 300
taaggtgact ttttccccct gcttttagga ttaaaatcaa agatacttct atatttttat 360
cactatagat catagttatt atacaatgta gtgagtcctg catgggtact cgatgtgtaa 420
tgaaacctga aataataaga taataagaaa agcaataatt ttctaaagct gtgctgtcgg 480
tgatacagag atgatactca aattataata aaactcttca ttttgtgaat tatagaagct 540
actttttata aagccatatt tttttaggga aactaaggag tgacatagaa ctgatgaatg 600
agyaaaagta agttttgctg gatttttgta gaactctgga cgttgaggat tcattatgct 660
gtgggttaact ttaaatattt ttgaattcca aatatctgaa ttaatgagcc ttgtctttac 720
aaatatgtgc cattgtgcaa catcgggtga ttttctaaaa ataatgtaaa tgtcttctat 780
taaatgttga gtgcaataaa atacagaaga attctcaaaa aaaaaaaaaa aaaaagatct 840
ttaattaagc g 851

```

<210> 484

<211> 1500

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1430)

<223> n equals a,t,g, or c

<220>

344

<221> misc feature
<222> (1451)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1454)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1457)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1499)
<223> n equals a,t,g, or c

<400> 484
cgacagccg gcctttctca gcgaaagcct cctgcgaccc cgcgtgagcc cagcatcgcc 60
accgtctccc gttgaaaata tcttcttctc tcgtatagtg ttagcttgat gctccgtag 120
atactttcaa tggaaacaga ttgcaactcc gtttgacagc cattttcctc caaccactcg 180
ggaaactcgt agtaagagca ttacatgggc cctggaatac tgattcgctt gataatttgg 240
aagaagtga gtttttactt catatgtggg tagctctgtt ttacagcaat cagaacaaaa 300
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gttctgcaga ctctctgttg gagactaacg aaatttccag ggctcatgct gctgaagtat 480
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aagaagacca gaatttcac tgttcttaca ataagaggt aactggggaa gaagctaaac 660
aagaatcatt ggagacttct aatcttgtgc ttctgggtat tgggaagtaca caaactaatg 720
gaccttctgt tcttagtgaa gaagaaattg ttcagccact ggatagcaca agagtggctt 780
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gttctagtca tctatcacc agtgaagaar tgagatgcac tcaggatttn ctttyacaga 1440
ctyagartct nctnggncta tctttagaaa ggcttcttag aacttgacac aggttgaant 1500

<210> 485
<211> 491
<212> DNA
<213> Homo sapiens

345

<220>
 <221> misc feature
 <222> (452)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (453)
 <223> n equals a,t,g, or c

<400> 485
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 ccttgccctac ctectgcctg tccccagagg ctgaggakag ggggtactgt gccaccaca 180
 catrattagg cctcagaccc aactctggtc ctggctccac aacagtggct gccactcact 240
 ttgtccagaa ggtggccttg ggggtggatat ctttgggttg ctggaaaagg tgtgggaagg 300
 ttcaggatgg tgggagggac tgaggctcct gaggtgaaga ggcccttggt cctgacgggt 360
 ttgacctgtg cctggacctt tggagcagtg ttgtgtgaac ttgcctagaa ctctgccttc 420
 tccgttgtca ataaagcctc cccctcatga cnnaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
 agtcgtatcg a 491

<210> 486
 <211> 1317
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1310)
 <223> n equals a,t,g, or c

<400> 486
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 aaaaagtgtc ttttgaataa gttgaggttg aaatgatggg aaccaacatt ctttggattt 120
 agtggggagc ataatagcaa acacccccct ggttcgcaca tgtacaggaa tgggacctag 180
 ttgggggcaca gccatggact tccccgccct ggaatgtgtg gtgcaaagtg gggccagggc 240
 ccagacccaa gaggagaggg tggtcgcag acaccccggt atgtcagcat cccccgacct 300
 gccttctggc ggcacctccc ggggtgctgt ttgagtcagc aggcattggg tgagagcctg 360
 gtatatgtct ggaacagggg gcaggggcca agcgttcttc cttcagcctt gacttggggc 420
 atgcaccccc tctcccccaa acacaaacaa gcacttcttc agtatgggtg caggacaggt 480
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 gttgtaacct ctgcgtcttc aagaccacac ctggaagatt cttcttccct ttgaaggaga 600
 atcatcattg ttgctttatc acttctaaga cattttgtac ggcacggaca agttaaacag 660
 aatgtgtctc cctccctggg gtctcacacg ctcccacgag aatgccacag gggcctgtcr 720
 ctgggcaggc ttctctgtag aaccccaggg gcttcggccc agaccacagc gtcttgcctt 780
 gagcctagag caggaggtcc cgaacttctg cattcacaga ccacctccac aattgttata 840
 accaaaggcc tctgtttctg ttatttcaact taaatcaaca tgctattttg ttttactca 900
 cttctgactt tagcctcgtg ctgagccgtg tatccatgca gtcattgtca cgtgctagtt 960
 acgtttttct tcttacacat gaaaataaat gcataagtgt tagaaaaaaa aaaaaaaaaa 1020
 atttattaac ggcgcaactt atcccttagt agggtaattt agctgcactg gcgcgtttca 1080
 cgcgtactgg aaacttgcgt accactatgc tgagaatcct tcgcactgta atcgagagcc 1140

346

gcgatgcctg acagtgcctg atggatgcgc cttagcgtac gggtttgtgt gcggacgaat 1200
 cactaggcct tgtccttttg aagggggctc gggagggggg gtgttccaaa aatgggcca 1260
 atttggcgct agttaaacac gtttgtgggg aaaagcaaag ggggttatan aagtttc 1317

<210> 487
 <211> 944
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (932)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (942)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (944)
 <223> n equals a,t,g, or c

<400> 487
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 gtgtgctgac ttcttggggg cctcaaacca ctgtattttt ctgttgagcc tgtacttggg 120
 gagagatcag tagcatttga ggaagtaaga gaaaagaatc atggtacctc agggtttctt 180
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 aatttactgt tactggaaac tttttgtaca ataaagcaat cacgcagatt aaagaaaaaa 840
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<210> 488
 <211> 1677
 <212> DNA
 <213> Homo sapiens

<400> 488
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 tctggctgtc cgtgggtgtc gtcttccggg tgctgggtata cgtgggtggc gcagagcgcg 180

347

```

tgtgggggga  tgagcagaag  gacttttgact  gcaacaccaa  gcagcccggc  tgcaccaacg  240
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tcgtcacatg  cccctcgctg  ctgggtcatcc  tgcacgtggc  ctaccgtgag  gagcgggagc  360
gccggcaccg  ccagaaacac  ggggaccagt  gcgccaagct  gtacgacaac  gcaggcaasa  420
agcacggagg  cctgtggtgg  acctacctgt  tcagcctcat  cttcaagctc  atcattgagt  480
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agaagaaaat  cttcacctac  ttcatggtgg  ggcctccgc  cgtctgcac  gtactacca  660
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ctcgaggggg  ttgcagcccc  tcgtcctccg  ccagccgagc  ttccacctgc  cgctgccacc  780
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gcctttcaga  cctgtctccc  agggacttgg  gtggatgcgc  tgatagaaca  tcctcaagac  1620
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```

<210> 489

<211> 1640

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (680)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (695)

<223> n equals a,t,g, or c

<400> 489

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aagatatcta  taatttttaa  tgttttataa  ttgttttaatt  tattagcate  ttaatgtacc  180
ccatttttat  atactgaatg  tggccttttg  agtgaaatag  gaagcttcat  ggtgttgag  240
ccacctttgt  acagttgttt  aaagtttccc  attgtcacgg  aaaacattgg  ytgcaaagcc  300
cctcaaagcc  ctcaagtgcc  ttctgtgagt  ttaaattgtg  tgggtgccctc  cagaaaagcc  360
tcggcctcag  ctccgtttcc  gcctgttccc  tccccagga  taatgaatgg  ttactgcaact  420
gtaaagaccg  tggctctctt  tcaactaaata  ggagattcga  gtttcccagt  ttacatgaat  480
gaagtctgaa  ttttaagacg  tgatgaaact  gaggttcagt  actctcgga  ctcgaggaaa  540

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348

```

ttattcctga gacatggagt aattccttaca aattttaaact attgtacaga tccacatata 600
tggtgttaag tacctaattgt ttgtctgaac tttttaaagt taatttccaa aatgtatagg 660
gattcatgat aattaaaccn tttttattgc tcatnttttt agtagaagaa tatcacttat 720
ttttagactt gtaaaatgta tgractgggtg agcgggacatc tgtaagaga gtcactagtc 780
agaatgttaa aggagtgcac gcaggatgcc ccaaagtgcg tgaactcttg ttactcctgt 840
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atatttcatg ttacatttaa aaatttccag agaagcataa aagtattcac tttcctgcct 1560
tgtcatttct ggaaagattt tggggagata ttttattgca tattaattaa taaattgttc 1620
tactaggaaa aaaaaaaaaa 1640

```

<210> 490

<211> 637

<212> DNA

<213> Homo sapiens

<400> 490

```

atttcggcac agtaccgctg ggaccagcct tatctcagac ctgcttacct gcatgatgcc 60
tttttggggg ctgggggattg artcttgctg ctctgcccag ccctgttcta ttctgcargg 120
tccctgtgtt ggaattctcc ctggggaacc tactttctgc tcagtgargc tccggccaga 180
aacctggagt ccttatcctc cctctgttaa gtgttttagg gtctggcttt tgcaggcacc 240
ctctgacctc agcagagctc ctgggcctgc tgccctgcaca ccacatcgcc tacctacaat 300
gccaaagcct cactgtcacc ctttctgcct tggtttccct agctgagcca cgctgcccac 360
gcagcagagg gcagaaggct tgcacttggg ccaaagggcc taagggtccac tggacagtgt 420
ggaaaacacc tgaccaccat ttaaggactc taagccagaa tggaaaattc accaggactc 480
cattcttaag cctatgcgag tcccctagag agaggcattg tactgatata taaatattat 540
ataatatata catgagacat actgacagaa tctgtaagct aataaaatgt aagaaaaggt 600
taaaaaaaga ataggtaaat tgacaagaag taaaaaa 637

```

<210> 491

<211> 464

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (397)

349

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<400> 491

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gtattttacaa agagaagggg ccactcgtgt gtgagcagca ccgagggaca gaggtacctt 60
gcctgcttgt gtccccctcca agtccttctg atattttcct ttccagctgt tgcctagttt 120
cctgggtatta aggagaatca actctctgga taaacgtggg aaatatggcc catagtccca 180
tcttttttaca ggcatttttt acacctggag cagccagagg acgcatgcat ggctcttcgg 240
aaggtaattt agggatcacc catgtaagtt tcctaaggat ttctttaaca tggttcttct 300
gattcagtcg ggccaattaa atctgaaatc caccctngga aagccatctg gtgtggataa 360
caaggcccac aaattgaggc agttcagctt tttgtgncct tttaggcytg ggacaaccac 420
gggatcttaa aggggggngg ggaactagga ggtttttgag ttcc 464

```

<210> 492

<211> 777

<212> DNA

<213> Homo sapiens

<400> 492

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tctgtgtcac tcttgtatgt cctcatatct ttcatactc ttgtgtagtc tctagaagca 60
gaacacctaa gtccctgggtc tggataatga aaccctcagt ctctggggcc tctgaaaata 120
aggaagcatt ggagctattg ccatgttgag tartgggctt cctagaacta ttgtcatcta 180
tcctgccagt gttttatggt gtagctgttt ttctttgaca ggtgagttcc agctatgttg 240
ttagtcatga tcctgccatt attttctgtg ttctgtagga tgtctccagg ctacttaaac 300
atattttatg agtttgcaat aaaattgttg aatcttgtat gatcaagtca ctectctgct 360
cagaaatcca cagtgaactt ttagtaagcc cctacattat atgcatactt gtttttttct 420
taactttact ccactttcta cctaacaggg acctcaactt aagtctcttc agttcttcaa 480
ggcctggcct tgttcctgat tcctcaaaaa atcttgactc taaggcctat tttattgtct 540
gtctctgaat ccctataaag cttcaagtct gtatgacatt cttaacgcca aattatata 600
tgtcttgtag tgttcctagc tgggtacatgt atattagtct tgtctccctc atgagaatgt 660
aagctcctta agggcaggga ccatgtctta atttttgtat ccaccacagg cctagcacag 720
tgcttggcac atgggtgctg aataaatacc ttgttttatt gatcarmaaa aaaaaaa 777

```

<210> 493

<211> 564

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (510)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (522)

<223> n equals a,t,g, or c

350

<400> 493

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tccaagctcg aattcacctc actaaagggg acaaaagctg gagctccacc gcggtggcgg 60
ccgctctaga actagtggat cccccgggct gcaggaattc ggcacgagat taataaaaca 120
gaggagtaca ttttaccctt gcaattccag tcaatactgt ggtgtcattt cagccaacat 180
accaacattc agtcaaatcc caaagccaaa tggataattt cagatggaat ggagtttagac 240
aggaactggc ttccctttct cctgttacta tgaggacaac ccacacctgc tcagtggcct 300
aaaatatatt aaatatgttc atgacaatta tgctgagaat gccaggataa crctgatgga 360
acccatgact tcaccaggat tgtggtctac atttacaggc ctagtactag aactagaccg 420
gcttagagag tgggagatat ccctctgttg tccatcgaaa agataaaaat acaggctttc 480
agccggtgtg cagtgggtgca tgcctttggg ccccgctac tnaagggggc tgagaatggg 540
ggaatccttt ttgagcccca gaaa 564

```

<210> 494

<211> 773

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (283)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (734)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (762)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (768)

<223> n equals a,t,g, or c

<400> 494

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ttagagctca atgctttgtc ctctgtcatc cttctactgc atccctttct tcgtttcctc 60
acttcaactt tttagtaaac ttgtctgagg cattagcttt actcttaacg attttgcctc 120
cctgcctttt tgttataaat attatcatgg catgaaacaa aaagcctgtt atctgccttt 180
ccatgatcac tttgtcgaca ctgtttcagc cacaagtaaa cctagcaact ctatgaatag 240
caggacagac ttgaatgtgg tgtgtgtgca aggaagttat ttnaactttc ttaatcttaa 300
atgccaccag aaaacattct gctccctgtt acttcttttt tttttttttt aaattacttt 360
gttttgcggg aaggagttgg ggaatgtgtg gtggcaggga agtaatgtaa gttgctttat 420
aactcactgt ctaacaaagt tttgaaaatt tgtctgatat glaattaggt actttagggt 480
tattaggttt tcataaaaaat tctggttagg gctcttgccct gctcccaatg aaagcctttc 540
cacagggcaa atataaaaaga gagagtagag ggaawycccc tgagggttaa atamgtcaaa 600
ccagtaagta atagtgtctaa gtttgtcagt gcctctcttt cttactgtac ttaacatcta 660
aaggggcacc tcatttatatt tcaggctaatt tatgttcttt atggggtgac tgtccaatca 720

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351

ggggaggggt gttnacggtc cagtggggag ataccctttt cntaattnat agc 773

<210> 495

<211> 723

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (597)

<223> n equals a,t,g, or c

<400> 495

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acagctgttg acacctgttt tggtcctgcg accctttact ggtctccgct ggctttgaat 120
cttcctctgg gctctactct ggagaacata agggctgctg tggttgagtc tggctagcac 180
tgtctgtggg tggcagtgtg tacacccttc cgttcagttc cttgggggta tttttcagaa 240
atccaaaggc aacccttcgt gcagtgtcga cttttttaag tacagttgat tacccttgcc 300
tgctgggggg cctagscatg ggccagagat ggaggagccc cagtggctga caggscagcc 360
tcactcaggc acgtacctgc tgaccagtca gccactgcca acccatggcc cagccactgt 420
gtgcattagc agggagggtt gtaggscatg gaggaaatga ggagacacca cctagtggag 480
acattggggc cctgytgggg ggatgggtgc tatagstggy tctgctggct ccctcaggcc 540
ctgcttacca agctctggag gaggggagtg ctgcattact gagcaccttc cttgttnttt 600
cctcatagga cactgatgtt actgtcactt tagttatgct aaagtggagg tttcagcctc 660
cagaaggaca gcagagcctt ctagggtcac cttagaataa ggttttagct aggctggggg 720
ttt 723
```

<210> 496

<211> 445

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (366)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<400> 496

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ggtctctaaa tgatgaaaaa agaaatcatt ctcagaagga gaaaagattg tatggggttg 60
gcctctccat atcttagcca attatgttgc tattttcatg gcttcagtta tcaaaacatt 120
actgctgggt agcagggctg tagttctcga cagccttcac agtgcacatc tcttgaagtc 180
acatgagagc tctttggaaa gttgaaatta gaggcatttc atatttactg ggkctgaatt 240
tgkccctgac tactmatgga gtagaaaatg acccattttg cctacattga gtaggctgaa 300
ggaattttgca wttctccact cttgtgaggg ttacacctaa tttattttaa atagaacaag 360
ttcttnatgc ttaggggttaa gcctttanaa atggaaaatc tcgatattca tctctctatc 420
ttgataaaaag tcagccaggc ctttt 445
```

352

<210> 497
<211> 617
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (525)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (603)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (617)
<223> n equals a,t,g, or c

<400> 497
gcagggacag cacatgggaa agcccatgg ctttgtgata catctgggga tgtgatccat 60
ttgggtaagg acttgggttt cagggcatga gttggcttcc ttgcaggatg caggtcctta 120
gggtgggtggc ctctgtctcc agctgtaggg ccttgccagg aagcctctat atgagcctac 180
ctccctcctg caggaccaga gaggggttgt tatgaacagc ccaggggatt ggttgcacta 240
agcttgtctt gaagcttttg ctggggagtc caggtgcccc tgtctctcac ctgctcccca 300
tacacatctc tgcacacctg gctgaggcat tcccagacct aacctcagat aatgtgcatg 360
tgatgaacac tcccaagtgg ctaggcctct tgcacctgag caggtggatt ctgccccagc 420
actggggctt tctctgggct gtccatcatg ggtatatctc tggattccag gattgctagt 480
tagcacctca catttgaggg tctgtgctat tcartctara atcanaattg gatgaaaaat 540
caactttgac accacctttg ggggtggctgs attggcttwa cacctgkaat cttaacactt 600
tangaagctt aagccan 617

<210> 498
<211> 1189
<212> DNA
<213> Homo sapiens

<400> 498
actactagag aaaaaccaac tggcagtttg ctaagcatat ctactggtgt tgtttctgcg 60
ccctcttttg gctaattgat gtaattatac tggctctaaa gatttactgc ccataagta 120
aatagtatag ccacattctg aacatatcaa aagtacaaac ttaggaggag tgtatgtaca 180
aaaatgtaaa attttatgaa aatgaacatg tttttatgat gttatttcta gttcataaga 240
atgtgatgac tgctttgctt catttatgta cgttccatt atattcttgc tgtcaatcaa 300
tcacaaaattt atatcagatt aggataaact aagccatttt atgtatttta ttttaaacct 360
tattttggca gagtaattcc ttagaattgg aaaagctgtt actttgaaat taccaattta 420
ttacaaaaca tagaaatgta ttgkagctac aaagacaacc aagcattttc tgtgttttaa 480
tgaatatcta aaaaactaca tttagtttat tttactcagt tttgaaatga ttttttact 540
ggctctattg ccttaaaata actaagagat taatgattct ttgtataatt ttccttttct 600
ttgttctttt tttaccattt cgcagagtta tatctatagt tttagtaaca atttcttatg 660

353

```

tattctggat aactgaaaac aactaaaggt gttgggcrtt agaaaataat tgtgagcagt 720
aagattactg atgtaatatg tatgttggac tgaagtattt cttataaac attctatttg 780
attttaagca aaatgtatgt taaagcatgt ttttacatca gtaaagtcac ttgtcgacct 840
tctggaaatg aaagggtttt acctagatac tgtaagttac acctccttaa caatcatatt 900
tgtcattgtt gttttctgca aacaaaaatg tttatgggct tcatgtaggc ttaagattgt 960
aggcaaaaat ggactgagtt caggaccctt caagcagtag gcattcagtt acagagcagt 1020
tggtactttg taaccagac ttacagttta aaaatatcaa gttagctgat gtttcattat 1080
aataaaaata ctattttgct taagagttgt attacaaata tttgtgctta acattagaaa 1140
tagctgtttt aaattgtagt taacatatta actttttcag aaaaaaaaaa 1189

```

<210> 499

<211> 396

<212> DNA

<213> Homo sapiens

<400> 499

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attaaatcaa atgatattga catattatga gggagaagaa gtcaatgctg gaaggattgg 60
gctaacgcta gtagtagctg gaatgggtgg ctctattctt tgtggcttat ggctggatta 120
tactaaaaca tacaacttct tcatgactgg ttacctcctt ttgggttttg aatttgctgt 180
tgaaatcact taccctgaat ctgaaggtag ttcactctgt cttcttaatg cttctgcaca 240
gatatttgga attytgttca cattggctca aggaaagctc acatcakact atggctcctaa 300
ggcagggaac atttwtctct gtgtctggat gtttatasgc atcatattaa cagcattaat 360
caagtctgat ctgcgagaca caacataaat atagga 396

```

<210> 500

<211> 1309

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (253)

<223> n equals a,t,g, or c

<400> 500

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aaaaatgtgcc agttccactt ggtaataacg ttgggaaaat gcaggtttat gaatgatgtg 60
gactttttaga ggatcaaatc aataaattgg attttttatt ttttgagggc agctgcmtea 120
ctgtttttaa taaagaatct tacataagaa tgttgacaac attcacagta agccattgsa 180
gaaaattgat ctgcatgtcc tagaccaatg attacaaggt gtctgtgggt ctgtgggtta 240
ggggggcccag ccnatcattc cttttccctt tggcactcat gagagagatg ccaagttcag 300
tgtggatttt tcttggtgct ctatggagaa atggagtctg tgtgcttact gaagagtccc 360
aaaaascaga gaccattttc atttaytgcc atcataaata ttctccacca ttcaagatgc 420
ctgtgtacac ggctatttgg gaaactwaag tgttggagga ggcaggggct gaagggtgtca 480
aaacctcctc agtaggataa cccctttctc ccctttggac catctgccat ctttcatgag 540
tgtttcccat ggtgtttttg catccagagt tgacarcaac tcaattttgc cttgaattta 600
ctcagtctta taaattaaaa atgtgcattt tatataaaga tgcattttat ataaaaatgc 660
acacctttta tctctatatg gcagcatata catatatata tataaaatgc acacttttaa 720
tctctatatg gcagcatttt tgaggcttta tatctgcccg tgtaccctca actgcctcyt 780
ttttgcagag aacgatcccc acaggaactg gtctaagaac actgtctgca catgattgat 840
gcttaaaatc caatatacca ccacatatca aaggktggga ttttcagagt ctttcttgat 900
ttctgagctg aaaccttaac aaatagggaa tttggcaggg aagacacctg ggtttttaat 960

```

354

```

tcagaaccct atttatatac tgttaaaatt tgagggtacta tagtttatat aaaagtcgga 1020
tggttaagata ttatatattca gtactaggag cttctttgca gtcattaaca tgacaaatta 1080
agtaataaat ataaaagtga ttgtccataa attatcattg aattttttgt ttattttgta 1140
gtgttctgta tttatctgca ctttgtgtat atatacacac atacatatgc caacatgtaa 1200
ataacctcat gtttattcct aatctaaatt gccmcaatat ttttaatgta tggttacact 1260
gtgtttttaa ttacttttaa aataaacttt gtaagcagaa aaaaaaaaaa 1309

```

```

<210> 501
<211> 944
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (10)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (11)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (16)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (17)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (882)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (892)
<223> n equals a,t,g, or c

```

```

<400> 501
aatcgggcan nagggnncaa agcagttaga gttcagaggc cagcggetca gggccactcc 60
ctccctagcc ttcacagca gagcaccctc catccccctg cattgctctt ctgtgaaagc 120
aaataactaaa ggatgccatc ctctggaatc ctaatggcag gcaaagggag agaggaaggg 180
tgacgggcttc tggcacttag aaaacaaaaa gaacaaaaaa agagaaaccc ccaagcctgg 240
aacgcagaga ggtctttact gctgggatcc acggaaaaa tgtctgtcct agccaagatc 300
atatgaagag tttggcacgg aggctgagaa tgacctggca tagatggttt gccagttagg 360
atgtctcaat ttgagccttt gcttttgggtg gataaactcag ctccccctctt gtaacctgga 420
aagttgggtg cctttatcat cctgctgggt ttatccatgg actgaacacc caacagcagt 480

```

355

```
gcactatgst ttctatggca tctttcattc tcattttata ttgtgctata aaaaggattg 540
ttttctccata tatatatatt atatgtgtat atatataata tatatatgtr tatatatatt 600
atatatatat attatatata taatatatat ataaaatata tatatatatg ctctcctctt 660
tcagcctctt tgtcacaggg aaraagtgtg ggargttgcc ttgggcctgc ctctctccta 720
acctcctctt cccactggg taccctcagc ccctatatatt taattcttga tcatgtarga 780
aattgttttt gggtaaatgt tgatattatt gttattatca ttattaatta aataaagggg 840
aaaagggaat ttttgtttta aatgaggaaa tgtttaacca gnttctgttc tnttttggat 900
tgtggacttg gcaccttttg ttccaaggta tttcctttgg ggcc 944
```

<210> 502

<211> 664

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (106)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (148)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (628)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (631)

<223> n equals a,t,g, or c

<400> 502

```
ggcagagggtc agtagggatt taagataggg agaaaatgta gctcagggaa aatgtgtgca 60
gtacaaaaga ccataaaatt tttcagaaag cagcttggcc ctgtgnaagt tgaccagatt 120
gaaagtccca gaatcctggg ttccagtnca ctcatgaatg gcttttggtt aattcttctt 180
gtgcttcaat tccttctctt gtgtgaaatg ggtaacacct tatctgcctc cctgagatgt 240
catggaaata agcaaaatta ggtcttaaaa ctacttggaa acctaaattg tgaaaattat 300
ctttatctct gttgtttctt agttaccagt ttaccagaag taacttaaca ctaggattct 360
ctgcyagtac taaaattaga ctctaccact ctgggctttc cttttctccc tcttgctttt 420
gttttcgggg cgtggaggag acatctgtgc tgctggaggt aataataaac taaagactaa 480
agaataactt ctcccactag aaaatactat ttcatccta cccacctgat caggctttaa 540
aagaaggagc ccaaatctgc catggatatt gattatttga ttcactttkg gaaatgtgcc 600
tgaraaarcc tagggaatga gagaagtngg nataaatggg aatcttaaat ggtatagaaa 660
ccaa 664
```

<210> 503

<211> 602

<212> DNA

356

<213> Homo sapiens

<400> 503

```
ggtttttcgg ggggtggccc aagccagcct cgctctcggk gggggccatg gtagggtgg 60
agcctgagga ccaagtgtgg gtgcagggtg gtgtgggtga ctacattggc atctatgcca 120
gcatcaagac agacagcacc ttctccggat ttctgggtga ctccgactgg cacagctccc 180
cagtctttgc ttagtgccca ctgcaaagtg agctcatgct ctcactccta gaaggagggg 240
gtgaggctga caaccaggtc atccaggagg gctggccccc ctggaatatt gtgaatgact 300
agggaggtgg ggtagagcac tctccgtcct gctgctggca aggaatggga acagtggctg 360
tctgcgatca ggtctggcag catggggcag tggttgatt tctgccaag accagaggag 420
tgtgctgtgc tggcaagtgt aagtccecca gttgctctgg tccaggagcc cacggtgggg 480
tgctctcttc ctggctcctc gcttctctgg atcctcccca cccctcctg ctctggggc 540
cggccctttt ctcaagatc actcaataaa cctaagaacc ctcaaaaaaa aaaaaaaag 600
gg                                                    602
```

<210> 504

<211> 547

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (475)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (523)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (541)

<223> n equals a,t,g, or c

<400> 504

```
tcactgactga aaaggagctt tggaaatcac tgcataaggc ttgatttatt tgcacaactt 60
tcttttagggg tgcagctaga acaaacctgt gcgctttgaa atgttacctt ctgctctctg 120
ttcccaagta cagagaaata atgttgcaaa tctcacttct gctgaacatt atgcttctctg 180
atgcatttag cagacactaa acatttgtca tactctaaac aaagttacaa aggactagaa 240
gaattcttgt tctgtattta gaaacccact cacattactt gatatttggg tatttaagtc 300
atgaaaggta tttcttctag gaagcagtga ttctaaagtg tatgcttaac cagtcagttg 360
agtgtctact cttgtgtgtt cacaagtgtg ccaargtttt kggtaaatta agaataattat 420
ttcaaataaa ttaattcatc cccataggag ccagtttaca gataatccgt tctcntttct 480
ggcaatcata cacaatgaac tcatttccga ataaatataa tanttttctt tatttccacc 540
ntgggtcc                                                    547
```

<210> 505

<211> 2083

<212> DNA

<213> Homo sapiens

357

<400> 505

```

cgtccgattt actattctta aattataggg agctgttttg ggaagaagat gctgatcaag 60
aagtatctcc tgacagagct gaccctgaag ctgcctggga accaacggaa gccgaagcca 120
gagctagagc atctaataaa gatggtgaca ttaaacgtat ttctactaag gaatgggcta 180
aatcaactgg atatgatcca gttaaacttt ttaccaagct ttttaaagat gacatcaggt 240
atctgttgac aatggacaaa ctatggcgga aaaggaaacc tccagttccg ttggactggg 300
ctgaagtaca aagtcaagga gaagaaacga atgcatcaga tcaacagaat gaaccccagt 360
taggcctgaa agaccagcag gttctagatg taaagagcta tgcacgtctt ttttcaaaga 420
gcatcgagac tttgagagtt catttagcag aaaaggggga tggagctgag ctcatatggg 480
ataaggatga cccatctgca atggattttg tcacctctgc tgcaaacctc aggatgcata 540
ttttcagtat gaatatgaag agtagatttg atatcaaata aatggcaggg aacattattc 600
ctgctattgc tactactaat gcagtaattg ctgggttgat agtattggaa ggattgaaga 660
ttttatcagg aaaaatagac cagtgcagaa caattttttt gaataaacia ccaaacccaa 720
gaaagaagct tcttgtgcct tgtgcactgg atcctcccaa cccaattgt tatgtatgtg 780
ccagcaagcc agaggtgact gtgcggctga atgtccataa agtgactgtt ctcaccttac 840
aagacaagat agtgaaagaa aaatttgcta tggtagcacc agatgtccaa attgaagatg 900
ggaaaggaac aatcctaata tcttccgaag agggagagac ggaagctaata aatcacaaga 960
agttgtcaga atttggaaat agaaatggca gccggcttca agcagatgac ttcctccagg 1020
actatacttt attgatcaac atccttcata gtgaagacct aggaaaggac gttgaatttg 1080
aagttgttgg tgatgccccg gaaaaagtgg ggcccaaaca agctgaagat gctgccaaaa 1140
gcataaccaa tggcagtgat gatggagctc agccctccac ctccacagct caagagcaag 1200
atgacgttct catagttgat tcggatgaag aagattcttc aaataatgcc gacgtcagtg 1260
aagaagagag aagccgcaag aggaaattag atgagaaaga gaatctcagt gcaaagaggt 1320
cacgtataga acagaaggaa gagcttgatg atgtcatagc attagattga acagaaatgc 1380
ctctaaacag aacctcttta ctatttagtt tatctgggca gaaccagatt gttatgtcct 1440
ttgttccaaa gggaaaaaat tgacagcagt gacttgaaaa tgattctgct ccttttgaaa 1500
gcattcattt tgctagaact gttagacaca ttgcagtatg ctgtattgaa agtaggaata 1560
tagtttttaa aaccttttga acaaagtgtg tgcataacca gtcagatgat aaaacaacac 1620
aatgcatggt gcctttttta tgtaaatacc cttaggtatc attaatagtt tcaaaatatt 1680
gtggtttagt aaagttgata cctgggtata aatattatgc ctttattttt ggctagaaga 1740
agaattattt ttagcctaga tctaaccatt ttcatactct taactgattg aaacagattc 1800
aaagaagtat cgagtgttat gcattgaaac ttgtttttta atgttagatg gcactatgta 1860
tattaatgta aaacaatgtt aatttactca agttttcagt ttgtaccgcc tgggtatgtc 1920
gtgtaagaag ccaatttttg tgtattgtta cagtttcagg ttattttatat tcgatgtttt 1980
gtaaaactca aataacgact atacttatgg accaaataaa tggcatctgc attcttggtta 2040
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 2083

```

<210> 506

<211> 1234

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (118)

<223> n equals a,t,g, or c

<400> 506

```

agcctccctc ttccccatgg aacttacaat caagaagcat cttccaattt catgtacact 60
aaacctaggt ggccacaagc ttcatttggg ccatgaactc ctttgaaacc ctcataanaa 120

```

358

```

ctgtcctact atctccctgg taaatcgac atacacagag ttttgccctt caggacatat 180
ggccttataa gattttgact actagtgacc aaaatgttga tgtttttcaa aaattacaca 240
gaattgttaa gatggaatag ttttattcag caaacaaaaa acttgctaata tcagagtatc 300
ctctagtcca cgtaatgtgg tttagactac atttgcaaaa ttagggcctt gacgctgaac 360
aaaataaaat ccagaggaag aactacagta tccaatcaaa aaggaagtac tagcaaata 420
accagaataa aagactttat tgtattccat acattcacag gtcacttcca gatttagtaa 480
caacactgca atgctatgat gctgtgcggg catttagctt aaaccacagt gtaagttggg 540
agctctctcc tgctctcttg gcctctagat gtatcacaat acaattccta actgtggcct 600
ggcaaccaat gcttatttca ttggattatt ttctgactgg gacatgagtt catcgcctct 660
tcccagaatt ttaaagtacc ttcccttaca ttataagaga tgaccaaaca ctctagtgtg 720
arggetgctt cacacactgt tcttatctat catgattgct cttccttaca tacacgtccc 780
gtacagatca gctacacacg gcatggctct gaaaccacag cttttgtttc tttggccaga 840
atgcacccct cacttgagt gcccgccctt gaaacacagg tacttggttc tcacaggggtg 900
tgcattggtt acacaagttc atctgcccc aaggtaaaagc tcttcaaaac ctttgcattga 960
cttgtgggga gcaggggtcac aatttgttgc atgtgacctg cctcagcctc aaaagataag 1020
agatcatgag gctccaccgc ccccgggctc aggaaacttg atccacatcg ctagggctct 1080
gcctgttagg ttatggatgc tcacctgact ctctgaagca gagggagggt gacacagatt 1140
agcttttatt gaaattatta aagtgcaact ttgtgttttc actctatcag gcactgaaaa 1200
gcaagaagct ttttaatttt tcttttctat aatg 1234

```

<210> 507

<211> 646

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (619)

<223> n equals a,t,g, or c

<400> 507

```

gatacaggcg tgagccactg tgccsggcct tcttctttca agttatatag aatggagcat 60
gggggtggca gtggctaggg acatttcctg gggacactct cccctaacc cccagaagga 120
cttcacaaaa acctgtggat aatggaaggg atgttacggg acaaacgtat atttatgtgt 180
gtgtgtgtgt atgtgtgtgc gcgcgcgcgt gtgcacatag gcgtgatgtc tgtgacctc 240
ctctcctcgt cacatttccc ccagaatgaa tgctgtcctg tctgctcatg tttgtgttga 300
agctgccaaa gtccggggagc tctggctcctg cccagacccc tttggaattg ctggccccatc 360
ctcccaactgg agagctgggg tgacgctcac cttgggggaag gaaacctcat gcctcagagt 420
aatttcttgt gaatgcaaa cctggggggag cgggtctttg gggggcaagg agccagtcag 480
gggcttgttt cccctcatag agctccccag acgtgcctcc gcaatgcctg aaaccagac 540
ctaggctaata aaacggttca atttctgtta aaaaaaaaaa aaaaaaaact cgagggggggc 600
cgtacccawt sgccctttnng tgggtgggtt taaaattcat tggggc 646

```

<210> 508

<211> 2257

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (838)

359

<223> n equals a,t,g, or c

<400> 508

```

ggatgattag gctgtgtgtg cgkgtgagaa tgatcacatg tggcgtcatg ctttgtacag 60
agcctcagac cactgggcct ygtccagtga gaggctcttc tggcgacatc acacgcggag 120
agccaggggc cacccttagat ctcagatctc tcagagcaat acttttctga actgccactg 180
tgccctgggtg gttggggttg gtgtcatgct tctgactaga gtagatcgcg catgtccacc 240
agtgatacgt tgagtcctta cagttccccc catggagtcc cataagcagc tccatcgaga 300
tctgtcagca agttgcagga ccccaaatg ttctgacatg ttaagacccc cttacatgac 360
gagtagagag gcagctgagg ccacaaccgt gtcttcctct tgaatggagc taactcggaa 420
ccccccgttt tctcttcctt tctgcccacc actgaacatt gccttttaga taactcagtg 480
tttcttctag atgtcatagc aatagacttt cactttcatg aagtttgggt acgatttgga 540
ttctcgctta agtacakata tttatcaata tttttataag gcaaagtcca yttaaaaaat 600
ctttccaagt agcagtgtgc ctaagatggc aaaatactaa aaactggtgt ttctgtctcc 660
tggtgtgtgt cacttttcaa gccgattgaa atatttcttg styttagggc attacttttt 720
aactatctcc tttaaaaacg atgttctgta ggtttagtgt ctttgttcat ttccaaaaga 780
gtccagacaa ctgtgtctgc ccctgcagag gctgtttgtc caaaggcagc atgccgcntt 840
ccaccggaac gcagacagca ggggagcggg attctaaagc agcgacttaa aatgaggaat 900
ccccaatgac actaaatggt ttcatgattg actaatcatt gtcttaacat taactcagat 960
tttcgatgtg taaagagctg tgtgacttgg cgtctgagag atccctctgc tttgctttgc 1020
ttcagagtcc tcgcaccgcg atcctcagaa ctgtggggca tgggtgggctc taacgagcac 1080
tccccttctg ttttccttca ttacttttga cctccttaag acttcagaga gaatgtccgt 1140
caagtctttt tctccatcaa gttctttaag ttctttgaaa ggaagggact gtgcaaacac 1200
aaagcaatat tcttttgtat ctgcaaatgc gtcmtgggac ataccaattg gtatcaaata 1260
gaataaaatc aaatataaat gtttgagtct taggttaaaa aggaagggtta tttgtatagt 1320
ttatagataa tgaaggaaaa atttcttttt cattgcagga aatcttgttt actggaagat 1380
agagtcactc ttttcatata agacaaatag tgctttaatg ccaacttctt tttatctcaa 1440
catttcagga tcatgctagg cacactgccc ccttgaatag acatttatatg cacagttgca 1500
agtcagccaa tgtttttatt cagaagtatt tccccccatt atagtgcctg cctatcagag 1560
atacaaaaag catccaacac actaccgtaa taggcttctt tggggatgag aaatttgagt 1620
ctcaacaact cagagtttga gatgtcagct tttttggtaa acgtagggtgt tagagggtata 1680
ttttgctttc ctacaacaat tggtggccct tgatttcaag catgttgctt cataggaagc 1740
accagagtgc catctgctgc atttcaagag attgtaaatg tcatctcagc tggctcagtt 1800
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cacttgtatt ttgtgtatac gaaatggcag ctcccgattt ctagttagat ttgtcttgca 1920
ttgtttgtat aacttgcctg tcaccagggg ctatttgcct tttcattgag aaatttggtta 1980
ggggtgtcta gttcagcttt tatgttgatc catcctgact tatttttagac attgaattta 2040
tctcaccaca agtaaaagaa catgtgtatt gactgtcttt gctaagtttc ctaatttttc 2100
ctaattatgg caattatgga tgtgaataag aatactgatg ctgtacaaat atttttgtgg 2160
aaatgtacct tgtaaatgtg actatttaaa taatatgaaa ataagaatac tcttgaagaa 2220
aaaattaaaa tatttactct ttggaaaaaa aaaaaaa 2257

```

<210> 509

<211> 701

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

360

<220>
 <221> misc feature
 <222> (34)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (600)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (637)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (647)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (676)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (691)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (700)
 <223> n equals a,t,g, or c

<400> 509
 ccccaaagn ggcgcgcctg aaagggccct aggnagtaca cctcctagga accctaagcc 60
 agagagagggc ttactacat catgcttct gacatctctc ccctttgaag agcagtcaga 120
 ctcttgcttt gctcttcaga cttaatttg gggtttaaca ggtgagggtg ctgggggaac 180
 tcttttacaa catctctctg aaakaatecg ggctgccagt ttcatttggt ttgggtgtca 240
 gtagcatgat ggaaagacaa aaaaacacaa cttgacatct gcagaaatgg gttcaaattt 300
 tacctgcaac tcaccaattc tgtggccttg gttcagcaat taaactccct aaaattcagt 360
 tttttctttg taaaatgggg ttatgaacag tacctacttc aaaatgtgtt tgtgaagatt 420
 aaaaaagtta acataaagag ttaraagag tgtctggcaa aaaaaaaaaa aaaaaaaaaa 480
 aaaagggcgg ccgctctaga ggatccaagc ttacgtacgc gtgcatgcga cgtcatagct 540
 cttctatagt gtcacctaaa ttcaattcac tggccgtcgt tttacaacgt cgtgactggn 600
 aaaaccctgg cgttacccaa ctttaategc cttgcancac atccccnttt cgccagctgg 660
 cgttaattag ctgaanaggc ccgcacccg ntcggccttn c 701

<210> 510

361

<211> 345
 <212> DNA
 <213> Homo sapiens

<400> 510
 cagagtgaga cactgtctta aaaaaaatta aaaattgtaa aaaaatgaaa aaaaaagttt 60
 tgagcattat ttgcatcatt gggatacata tgtcacttca caagatgttc aatttgaagg 120
 aaataccact cattctctat gtcctgttgt ctgtagtgtg cttcagtttt tcatattgag 180
 ttgacctaaa tcctggattc atgacaagaa aggagtaagt actactattc attgttctat 240
 ttgtttataa tctgtattat aaaattgcac ataattaaaa gctttccctt gtcttcaaaa 300
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaa 345

<210> 511
 <211> 967
 <212> DNA
 <213> Homo sapiens

<400> 511
 gacctgtcac tgccctccgc cgcctcctgc ccgcgccatg acccakycgg tgccccggct 60
 ctcctgtccc gccgcgctgg ccctgggctc agccgcactg ggcgcgcctc tcgccactgg 120
 cctcttccctg gggaggcggg gccccccatg gcgaggccgg cgagagcagt gcctgtcttc 180
 ccccaggagc arccgcctgt ggcagtatct tctgagccgc tccatgcggg agcaccgcgg 240
 gctgcgaagc ctgaggctgc tgaccctgga gcagccgcag ggggattcta tgatgacctg 300
 cgagcaggcc cagctcttgg ccaacctggc gcggctcatc caggccaaga aggcgctgga 360
 cctgggcacc ttcaacgggt actccgccct ggccctggcc ctggcgctgc ccgcggacgg 420
 gcgcgtggtg acctgcgagg tggacgcgca gccccggag ctgggacggc ccctgtggag 480
 gcaggccgag gcggagcaca agatcgacct ccggctgaag ccgccttgg agacctgga 540
 cgagctgctg gcggcggggc aggcgggcac cttcgacgtg gccgtggtgg atgcggacaa 600
 ggagaactgc tccgcctact acgagcgctg cctgcagctg ctgcgaccgc gaggcatcct 660
 cgccgtcctc agagtccctgt ggcgcgggaa ggtgctgcaa cctccgaaag gggacgtggc 720
 ggccgagtggt gtgcgaaacc taaacgaacg catccggcgg gacgtcaggg tctacatcag 780
 cctcctgccc ctgggcgatg gactcacctt ggcccttcaag atctagggct ggccccctagt 840
 gagtgggctc gaggggagggg tgccctgggaa cccaggaat tgaccctgag ttttaaattc 900
 gaaaataaag tggggstggg acacacgaaa aaaaaaaaaa aaaaaaaaaa aaaaaaagtc 960
 gtatcga 967

<210> 512
 <211> 532
 <212> DNA
 <213> Homo sapiens

<400> 512
 tactatcggg aaagctggta cgcctgcagg taccggctcg gaattcccgg gtcgacccac 60
 gcgtccggct cccggttcca ggcgagttcg cagctgcgcg ccgggtcctg gaggccgagg 120
 ccgtcccccgc ccgttgtccc cgcagtcccc gacgggagcg ccatggccca gccgcgcgcc 180
 gacgtggagg gggacgactg tctccccgcg taccgccacc tcttctgccc ggacctgctg 240
 cgggacaaaag tggccttcat cacaggaggg ggctctggga ttgggttccg gattgctgag 300
 attttcatgc ggcacggctg ccatacgggtg attgccagta ggagcctgcc gcgagtgctg 360
 acggccgcca ggaagctggc tggggccacc ggccggcgct gcctccctct ctctatggac 420
 gtccgarcgc cccagctgtg catggccgcc gtggaccagg ctctgaagga gtttggcaga 480
 atcgacattc tcattaactg tgcggccggg aacttccctg gccccgctgg cg 532

362

<210> 513
 <211> 515
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (20)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (49)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (464)
 <223> n equals a,t,g, or c

<400> 513
 gcaaacagtt cttccattan tgaagcgaga ggaaaagcca taataattnc atcttcaccc 60
 actacccttc cagagctttg cttctcctcc acatttagcc attaaattgc atgaggattt 120
 ctcttcatca gggtcgcgat ggaatctttc ttatatatta ccccttccta catgtagcct 180
 tgaatgtcct ttccacaaat atgctccac ggctgggagc attttctttt cttttcgtea 240
 cttttgattt ttgggattag attaataggg gaaaaagtcc ctggctttaa agaaaacaaa 300
 agtagaattc ttcaaaaata aatttcatac tgggaacaga aaggaactaa atgcttcata 360
 aaacagggaa aaagaaatta agatcatcct agaaataaac taagatwaaa ataagtatac 420
 tgacccttgg ttggtagata aaaagatgac cagtcttgta ttgntttaaa attagataaa 480
 catggrttaa gcatgcaaag actctgkccc ttttt 515

<210> 514
 <211> 495
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (467)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (495)
 <223> n equals a,t,g, or c

<400> 514
 tctaacatcc tccctttgct gtyctgaaaa cttcacgtca gagtcatatt taaatgtgta 60
 attactgctc tttctcctgc ttataattca ttatactttt tgaatttgag gcttgtgttt 120
 ttatgaacct tgaaaagccc tctgctgccg gcctctggag ccaccgtctc cctgccctgc 180

363

```
tctctctctct gccgaggtgc ctgttaagct gcattctctc ctccacagct ccccgcttcc 240
tgcaggcttc ctgtctcact ttctttctgt gctccagagt ctaggcaatc tctkttgtta 300
gaacttccaa ttcaccaata ctttcttatg ttgygtctaa taagctacat catctgctca 360
ctgggttttt tatttcagtg attatagttt tcatttccag atattccata tgccttaaaa 420
acatctgcat gatactccat ggttttaact cccctgatga atactgngca ttttaaccatc 480
ccagcacgtg aggggn                                         495
```

<210> 515

<211> 446

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<400> 515

```
attacaggca tgagccaccg cgcccggctg aactnatttt tttttaatga agtgcacgt 60
gttcccactt gcacttaaag ktcacatttg gtgccaggct gtattgcttc ytctcactgg 120
tgagtggcag ctgtgtctcc tttctgccag tccagcagtc ccagctgtca gtggcacctg 180
cataatgaca cgtctgcatt tccccccaat crgertgcag cggttttggg aggaggaatg 240
cgactgcatg gcgcgctcgc tgcaacctca gtctgcagcc tgctagggac gcacggccac 300
actcctgtct ttcagcctca gtctgcagcc tgctagggac gcacggccac actcctgtct 360
ttcagcctca gtctgcagcc tgctagggac gcacggccac actcctgtct ttcagcctca 420
gtctgtagcc tgctagggat gcacgg                                         446
```

<210> 516

<211> 1175

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (639)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (699)

<223> n equals a,t,g, or c

<400> 516

```
aattcggcac gaggtttctc tagaagtaat ttatgttata aggttatccc ctgagttttt 60
tcttactcac catatgtctg gtggttctca cagccagggg cactgagggg ctctgccctg 120
ggatctggag gccagcactg ttcacctgat ctccaccact gagatacctc tggctagagc 180
cataatcagg tggcccaaag gactgaacaa ggaagaatgg gagggcactc tagactaatt 240
aaggttgtct tttcagtcta aagttaacaa tgacacacat gaattttcat atcagtataa 300
ttagatgcgg gtcccactca attacagtgg gtcattatgg ctgttcgggt agagcagctt 360
gggtgtctct tgaccatggc atgtgcccgt gtcaggacta gacaaagtca tttgcttggg 420
gaagctctct ccccttcagg tgtgaggcca ggagcacctg gtgtgggtcc tgtccctgag 480
```

364

```

gttctgtcct acaccaccct catgcaacac ctactacaca caggtgcaca gcgactgtca 540
caggcgcttc atgtttaagg atgggcctcc gtgtcataaa cttttttaaa gggatatatag 600
rgatagctta tgraatccaa atcaaaggtc cagagtttnc agcaaattgt acctacctat 660
ttgccaactt amctcaccat agaaagccaa aagattcanc ctgtggccag tctttcacat 720
tacagagttt aaagtacttt ttttaaatty ctattttatt ttttaacaaa tatttaacaa 780
aatatagtat atctcatgtg ccagggtacta tttgtaatat ttataaacac tgatttaytt 840
aatcttcaca gagactcatt ttacagattg gaaaacagag gcagagagaa gttaagtaac 900
tttaatgtca ctcagctggg tagtatcaaa gtcttggctg ctggctccag agtctagacc 960
tttaaccact gtgttatgtt ttccatgggt aaagcaacct aaaaaggccc ctggaatcag 1020
ttacatgtgg ttggagacta actctgtcat tgacttacta aatgcttgat attgggcaat 1080
ttatctaacc tctctctgca tttagtaagt caatgacaga gttagtctcc aaccactgtg 1140
ttatgctttc catgggtaaa gcaacctaaa aaggc 1175

```

<210> 517

<211> 473

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (344)

<223> n equals a,t,g, or c

<400> 517

```

ctaacatttt tttccttttt tttcccccaa aggatataat gtattatcta tcaaccactc 60
tctcagaata acttgtttgt tttatcatgt actgtgatag gttagtcatg aatttgcagt 120
taatgaaggg ctatttatatt catgcctacc ctacacagggt tctctttcttt tttctttttt 180
gtgacggagc tcaactctttc accaggctgg agtgcagtggt cacgatctca gctcactgca 240
atctccacct ccccgattca agtgattctc ctgcctcagc ctcttgagta gctgggactg 300
caagtatgaa ccaccatgac tggctaattg tggtttntt tttngtttgt ttgtttgttt 360
gtttgttttt ttggcagcag gtcgggtgggt gggcagtggt tgtagagaca gggcttcaca 420
ttgtgcccag gctagtctca aactcctgat gtgaagcaat cctctccgct cag 473

```

<210> 518

<211> 1508

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (929)

<223> n equals a,t,g, or c

<400> 518

```

catcgaccgg gagctgagcc ctgagggccc aggcaaggag aaggagctgc ctggacagac 60
cctgcactgg gggcccaggg ccacagaagc cgcaggctcg ggtctgcagc ccctgaagct 120

```

365

```

ggactaccgc gccctggccg ccgtgccag cgctggcagc gtgcagaggg taccgtctgg 180
agcagctgga gggaagatgg ctgaatctcc ctgctccct agtggccagc agccgccctc 240
cccgcttct ccgatgagc tgcccgcaa tgtgaagcag gcctacaggg cyttcgcggc 300
cgtgcccact tctacccgc ctgaggatgc cctgcccag ccccccacgc ctgggacctgc 360
agcctccccg gagcagctgt ccttcggga gcggcagaag tactttgagc tggaggtgcg 420
cgtgcccag gccgagggcc cccctaagcg cgtgtccctg gtgggtgctg acgacctgcg 480
gaagatgcag gaggaggaag ccagaaaact acagcagaag agagcgaga tgctrcggga 540
ggcggcagag gctggggccg aagcgaggct cgccctggac ggggagacgc tgggcgagga 600
ggaacaggag gatgagcagc caccctgggc cagcccgagc cccacctcaa ggcagagccc 660
ggcgtcccc ccgcccctgg gaggtggcg ccggtgctgg acggccaaag ctgaacggcg 720
ccaccaggag cggctgcgcg tgcagagtcc ggagccaccg gcacccgagc gtgacctgtc 780
cctgcccag ctccggggcc tggaggccga gaagcgtgct ctgtggaggg cagccaggat 840
gaagtcattg gaacaggacg ctctccgagc acagatggct ctcagcaggt cccaggaagg 900
ccggggyacg cggggggccc tggagcgant ggccgaggcc ccttccctg cgcccacccc 960
gtcggccacc cctgtggaag acctcgggcc ccagaccagc acctccccgg gacgcctgtc 1020
accggaactt gctgaggagt tgaggctcct ggaaccatct cccagccctg gcccgcagga 1080
ggaggatgga gaagtggctc tgggtgcttct gggcagggcc tcaccggcg ctgtggggcc 1140
tgaagatgtg gcactgtgca gcagccgccc ccccgtaagg cctgggccc gtggcctggg 1200
cctgtgccc tcttagagga gcaggcacct ccccagact tggggtgggg gccctgccag 1260
ctccagcacc accttgccc caagtctttt aacctgggtg ttagcatttt aaagagaccc 1320
cacaggagtt ctggcctgtg actaactaac tgccccaccc cagccgagac ctcggcgaga 1380
ctgtaactag tgatgtttgt acaaccaaag actctatttt gtggtttaag gagaataaag 1440
ttgactacat tttaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaaaa 1500
aaaaaaaaa 1508

```

<210> 519

<211> 592

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<400> 519

```

cctcactaag ggancaaaag ctggagctcc accgcggtgg cggccgctct agaactagtg 60
gateccccgg gctgcaggaa ttcggcacga gtatgtttgt ttcggttgaa atttttcctt 120
aagtgtctgg tgatccctgg atttctgtct ataattaagg aaaagaatgc tgactcactg 180
gaccaggca gggcttctct cccagattgc aggtttgctt cggggataca cgggtttccc 240
aatgctaga atgaaaagag attttatttt ggcttgctaa catcaaagat actagtttct 300
ccagatgggt tattcagaac actgttgtct tatttttatt tgtctgagat taaatgtctt 360
cccctttaat taaagggagg tctctgatga agtaggtttg ggaactgcta ccttggtgac 420
agcttgagtc tttcctttag tgaagtgcag cacaattcca cgtgcacggg gaccttctct 480
tgattagggg gccttggaat gtacagaacc taacttgaat atacagcact ggtttctttg 540
taagragtgt acagtgatct aaacttgcaa accaaaatac agagatgatg gg 592

```

<210> 520

<211> 568

<212> DNA

<213> Homo sapiens

366

<400> 520

```
gctgcagcct cacagactcg ctgagtcgct cctgcagaaa ggggggggaga gagatcgaaa 60
agcagggggag ggggacggca cggccgttta cctgtctgcc tcctcattcg ctctcccccc 120
tcgtttctgct cactcctggt gtcagcctat ccgccttccc aaacctctcc attcccccg 180
tgtagccccc cccttcaactt tccttctcgt cctctgtggt tctcctctct tctttcttcc 240
cttccccctc tagcattgct accttctctc ctacacgcac gcaggcatat aaacgtaggt 300
ttttgatgct cctctgcctg ttgaccccg c tattttcatg ttccaacag gtttttcttc 360
ccccagtccc tcagctgctg ctgctgctca ggaggtcaga tctgccactg atggtaatac 420
cagcaccact ccggcccacc tctgccaaga aggagaaagt taaacagcag cagcagtagc 480
agcagtaaca gtagtaacga gagagaagac tttgmttcca cctcttctc ctsttccact 540
cctcctttac aaccagggga ttcggcat 568
```

<210> 521

<211> 987

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (162)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (934)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (968)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (974)

367

<223> n equals a,t,g, or c

<400> 521

```

tcttcaactaa gggatcaaag ctggngcnc accgcggtgc gaccgctcta gaactagtgg 60
ntcccccggg ctgcaggaat tcggcacgag tttttttttt ctttgtgaat tgaatgtacg 120
atacaaatgg taggccttca tgtgagccag ttactacatg antcttcatt tcccacagtg 180
gtttgttcat tcatcagcgt taggcttggt cctggctcca ctttctcct ctccgggcac 240
tgaccccacc ttccgtgta tttactgtag gctattaaat atgatcatga cccgccttgc 300
attttcattc atcaoctgtt tatgccc aaa tttaaaggaa gtttgtctca ttttgccaga 360
aaaaaattgt aatagtcggc acgctggatt tgtagggcca gcaaaattgc ggcagtgaac 420
ctagtttcac ttctaaagcc cttcatttcc cacaaggtta agctctcgaa accccatttg 480
atccttggtt cctatttcga tctcctttg gaatctgaaa atcgggtctc atgttgtatg 540
cagattagaa gttgccttgt ttgttactct tccaacacag ggtatcaggg agaaagaggc 600
cttatctgtt cctccatccc cctgttttg acagactgct aagaattcct caggacttcc 660
tttggttggg gattttactt tcccaaaagt ctgatctgat ttctttcagg ggtagacaag 720
cttgtcctag tgstctggtt caggctttat cagaaggaaa cccaggggat aggaaaaggt 780
aggatgcctt gacttttgtc cctgttgttg gggacttaaa gtgttttttg ccagaattgt 840
tcaaaagctc cggtttcaaa ctctgtagga gttttcatgg ggaaaaacaa aacaaaacaa 900
aaaagggtggc ttattcgtcc ccggagatgt tgtnagtaag gttcttccag cacggccttg 960
gggttttncc caantgggga agccaag 987

```

<210> 522

<211> 1155

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<400> 522

```

tagtgtcntn tgntggaacc ggnctcacta tagggaaagc tggtagcct gcaggtaccg 60
gtccggaatt cccgggtcga cccacgcgtc cgccccacgc tccgccccac cgtccgccca 120
cgcgtccgca acaatatact tatttttaggt gccactagca gatgtaagcg tatacttagt 180
tgccgttaga tgtgacagaa tgagataatt tatgtaaagc agtagagtac ctggcacaaa 240

```

368

```

gcaaacaata aatattattg ttattgttgt tataattgta aaatgaatga cttcaaaaac 300
atagtcccag tttggaggga ttttgtgatg cagaatatct aagtcataga aatagaagac 360
aggtggaata agtatatgtt cagagttttt agatgtgttg agtagagacg gkaataatgg 420
aagcattaaa tacaaatgaa aatcacacca gatatccctg raattcaagc aaagaaagtt 480
catcatgtat tcttgggcag caagagaaaag gactaggggt atggcaatgt gtggaaaagt 540
tgaggcttgc taagggttga gatctgttgg tagccctggw tcacatgggg tcagcaccag 600
gcagtgscty tgaaagcgga garaggctct ggacttccct tgkgkataac agttcctagt 660
gtccaacaat gaggaaaygg tgaagcatgg ttacaaaact gtgacaaaaa tatttacatc 720
tagcactgtt accactcaca tgccaaacat tggctgcaca cgtgcagctt atttgtaatt 780
aacatcaaaa gactagatct gaagccttcc ataaatgaga ggccattcat atggcattcc 840
tggaacaaaa cactgcacag gtaccagcct ctccactcct gaccgggttg gtgctgaaca 900
gtcagggatt gttcttgaac tagacttctg atgcttcttg caatcttctt tcacttttcc 960
ctgaaataca caaaataaac aaatacaata acaaatagta attaaatgac tttcaggata 1020
acatctagtt gttcagactt cacccttcac aggtgtgtgt gtatgtgtgt ttatgtytgt 1080
atattgaagc aatttgaatt tatttactgt atattttctg agtaaaagac tgaaatgaac 1140
tacttggttc agaaa                                     1155

```

<210> 523

<211> 529

<212> DNA

<213> Homo sapiens

<400> 523

```

agttctgctt tttcgtcctc taccagtctg attaatctgt aggcttaaca cttccttttt 60
ctttctcctt ggaatgcctc ttgggatatg cattagttgg tcttatgtct tttcttgggtc 120
taggtggtgt gtgtgttttg cttgttttgg gcacttttag aggctccagc tgcacatttc 180
cactcctctc tgtgtgttcc tctctgcac tgctgtttgt gtgtgtacac tttttttctg 240
agcaatcttt ctcccttagcc acattgagtt ctttaacagt ttttctgttt tcttcttcat 300
taagataatt aataatcata ctactcacat atcatgtttt agaacttccct aagcctttcc 360
ctttccacc ttttggacct cctaaactgaa tttcaaagtc ttcrttctct agattaaaaa 420
aataaatcca aagataaaag aatgtaatgt cttataagtc gtatcagtggt atattttctc 480
tgttatttgt gttagtgtta taataaatcc taagtgcac aaaaaaaaaa 529

```

<210> 524

<211> 1981

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<400> 524

```

catgtttgac catggtaata tcttttacta cctggaccat ttaaatttcc taaatgngaa 60
aggtatatat attmctgtaa ctgtagaggg aaaagggaag gtatttgggt ctaaaaaatg 120
ttagccttcc tcgtaaaagt agcacaagcc cacttatgaa tcaactgagaa aaagtgaana 180
acttgagttg gcaaagatgc agagcagcag tgcagatggc aatgaactct ctgaattctc 240
ttttacctta tttagaagaa tgcagagtaa agggaacctc ttggttctgc aggaacttct 300
caagggatga ggagacagaa cccctacttc caagtgtctt atttgtatta ccagatgac 360
tgaagcttaa gagaaggcag ggaagtatac aagcagagcc agttctgggt caaacaaaga 420

```

369

```

atttgacagg gacaatggaa ggggtcttctt caccactcct taccttctat gtgatggaaa 480
gactagagct tataaaagta ctccattttt tttattctcc tgaataccaa aggcaattaa 540
agtcagctac aaatgacttg ccagtggtcat gttttatttt tgttatagat ttttaaatta 600
tttctttcaa gatcagttct tatcccatat aatgcttagc ttccaagaat attctttact 660
ttcttctgtc ttttacagct ctttgcattt tgtagacctt aatactcagg ttaaataattc 720
attgcattta taagatcttc tgcaaaaagc ccagaaatgg tccttttcag gtgcctcttc 780
aaagagctga caccttacct tgtgcctttg gcaartgtg cagaatagat acatcagttg 840
gtgcataatc gaaaaaata ggaattttga acactgttct tccttctaca tttatttctc 900
ttcatttttag aatcacactt tttatgttaa accagattat tattattatt attattcaac 960
cagtattaag ttgttaaaac caagggaatg gggccctaac caaaaagaag tctcaactca 1020
gaaaaataag tccccagtc ggtgggttctt actttcttgt ggggtgcaca ttttgtatct 1080
ctctaacatc agcgtatttc tgactttaag cagggtgtta tatgtaaaat aaaacctggg 1140
tatcgaaggg aaatgcattc tttttatgga gtattgacct tgatcctcta tgatgtcata 1200
tagagcaact cagggtctata cttgctagat ttttaaccaag cagtttgaaa tattaatcat 1260
catcctctca tcttctccas tctccattgc caaagtcttt gtcaaaactc caaatttggt 1320
gataaaagat tgtgtttgctt attctcattt ataatgcagt ttctccttaa gcctggagtt 1380
ttttgaatga gtgcatgagt aaatgagaga atgtgtgaac gaacatttat gaagtatcta 1440
acatgtgcca agcattgtgc ctggcacttt caatcattag aatgttttat gtgattccac 1500
agcattttct gtatragagt agctcacaaac attttaaatg tttccaatat gaatcgtgtt 1560
acaaaattct taattttata tttcatataa attaaagagg aaaaagaaaa ggttttataat 1620
atattttaaa acaatgtgtt actrtataat acaactataa ttgtagttaa taaactaaaac 1680
ctcttgaaaa tgtcaaagaa atacttgatt tctgatgcaa ctttgactaa aatatttact 1740
ttagaaataa aaacgttctt attttgctat atcactttaa ttgcataatt aaaaagcagt 1800
gttttataga aatgctgggtt attttatatt caaaaagatt ttgtcacata attcatgggt 1860
aaaacttgca gttgtaaatt gtgtctgtctc tggtagggc cctattaata gtcccatgct 1920
gttaaataata aagaaaaata tactaaaata ttcaaagttc caaaaaaaaa aaaaaaaaaa 1980
a

```

```

<210> 525
<211> 1570
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (1533)
<223> n equals a,t,g, or c

```

```

<400> 525
gcccacgcgt ccggcctcct gagtagctgg gactataggt gcccgccacc actcccggcc 60
aatatttgta ttttttgtgg agacgggggt ttgccatgtt ggccaggctg gtctcaaact 120
actgggctca agtgatccac cctcctcagc ctcccaaagt gctgagatta caggcatgag 180
tcaactgcgtc cagcccaacc ctctcttttt atgtgaaagt atcacctttt gtacatttag 240
tccataccca atatctcttt gcctccttta gtgcaaagtt actcactcct acttgtatct 300
aagagaatct ttccactctt ctgagtgggc actagttttg gagtatatat attgtatgcc 360
atgaactata tttttctgct tatggctttg cctcatttaa ttgccatagc acttacatgg 420
ggcagggtatt cattttcctg cttagcaaat aaggaaactg aatttcagag atgtcaggta 480
acctgcctac ttcacacact aggagttttg atgtttaatt ttgaactaag atctatctgg 540
cttgaaagct ctttgcatta aacaaccttg aacaatatac ttggaacgta ggtgtgtttt 600
tggcacagaa catggcatgt gtgtgagggg ttgaacacag acttgcccag attcaaactt 660
accaatcttc tgtttcatgt gcccagaaga aacagcctgt ttctcagcct caaacccaaa 720

```

370

```

cttctagttg tcttgattgg ttcagcctga ctgtccaact ctgatttata gctgtgattg 780
ggggagctga gattacacag tgtaggcagg cagaagggcc ccaggcctat tgatatgggt 840
gaggacaata ctcacgcaact cccttcactt actcactctt ccaaggtctt ggcttgaacc 900
caattttttt tgagagaata aaccaggcctt tttgttctcc acttggcctg actccatttc 960
tggcattcca gccatgtatt tagctgttat cagctttcag atttagasaa agccttgttt 1020
ccaataagct tgtttctctg aagtaattgt taaaatataa ttttcagaaa aagggttaa 1080
catgactcat acaaataata aaatgaacat gtgctaaaga tttttatttc actcatgtga 1140
tatgaagtaa ccagacagaa gttataacca gtacatatgg aaagtcaaaa agcacaaaatt 1200
catatgtagt aaaggaattg gattgcaaat gaaggcaaaa ctgttttttyc tacaggggtg 1260
agggaagata atcaaaatgc tagaaccaga atttscatgc ctgtcactta gcttcaattt 1320
acaaaagccc agaataactc aaaggcaaat tctagccctg caaatatcag ccctaaagct 1380
gtgctgtggc cagtgcatag ttttctattg aagtacaatt ttttcccaa atacattatc 1440
tctcagaggg agtccaaatt gcttcccttt cactcagcag atctgttcag tcaacagatg 1500
ttaaatagct acagcgtatc aggcacaaat aanttcttta taaaataaag taacaaacta 1560
tatgttgttt                                     1570

```

<210> 526

<211> 1084

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<400> 526

```

caattttctag taggaagaga ataattacat ttgcngggggg ggggtggataa aaacatgtct 60
gcttctcatt taaataagag agaaatgatg ccgtttttta aatgtgaagc agactataat 120
tctcagctct cttttcttct tagccttaa ttaatattct ctttcttcta gttttggaaa 180
gtgtagtggg aatattcaga caaaagaggc cattttccat ttttaaagct tcttactggt 240
gaaacagccc agttgtagta ggtgccagtc agtcaaggca ggggcctctc tccgtcaata 300
tggaaaactc agcagttttc ctctcccca gttgtgttct tgtaacggtg ttaatgggtt 360
cctttgcttt ttgctttctc cttttctgaa aatgtatgtg ttttgccctc cttttggcta 420
catcttcaaa atatttcttt tgtgcctatg tacatgtgta aacatgccat agcatgtgtg 480
gtaggtgtcc tgtattttgt ttgggaaaaa aactatcaaa atgaggaaga gaatttcccc 540
tatttatgca ctaggtttct gtgctttttc tttgagttct ctggagtaga tattaatttg 600
ataccttcat ggtaatgaaa ttatgatgga gctgtgttat aaattcctta tgtcagaggc 660
cagtgcggta gcctttgtcc cttcatgcct ttcaattctg agtgggagga aaagcaaaca 720
tcaaaacagt gcttcagcca aattccatat gtaatgccat tgggagagta ttgactaaaa 780
tatcattegt cagggaaata tagttgtaat atttttacag gatattccta ggtaaataaa 840
ggagccttca gttgtaaatt tcaattaccc caaaatgtat ttgctacatt ttgttgtttg 900
aagtattacc tcttaacctt ctttgttaat ttttttcatt ttgtcttata tagtccagtt 960
ttccaagata agctcagtc tttttcaaat gtcmtcttt taccaatact ttttcattaa 1020
attatgaaaa ctgctaaaaa aaaaaaaaaa acaaaaacca agtacctgcc cgggcgggacg 1080
ctcg                                     1084

```

<210> 527

<211> 1506

<212> DNA

<213> Homo sapiens

371

<220>
<221> misc feature
<222> (1491)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1502)
<223> n equals a,t,g, or c

<400> 527
tatagaaggt agcctgcagg taccgggttcc gaattccccgg gtcgacccac gcgtccgact 60
aaaggcagca agggattgta aactaatctt acatagtcaa tgtttcatag aatgctttgg 120
ttacaatcag gttttttaaa gacttttaaag gttttttgta tgctataata tatgcttatg 180
atttctaaaa attatgcagt atacacaaaag ggcataaagt caaaaagtgt gtctccctct 240
gtgactttat tctcataccc cagagggtata taatttcttg tattcttgtg tagtctttaa 300
gaaatgttat cgtttatttt atatatggct ctctctctgt atgcctcttc ctgttcttat 360
tttaaagtgt caagtttgtg acttggttct tgtttaactt ggttgtcttt ccatattgcc 420
accttccagc tctaacatta atgtctccag gattccatta tatggatgtc cctttggaga 480
acatttgttt atagactttt ctactaaaaa tattgttata atgataatat ccttatgcat 540
atatgaagat tactcttgat tctgcctgac tggaaacttt attaataaag tagacattat 600
tctattttga ggctcaccag ctgtgttaggt atgatcttgt gcttccattt aagaaattct 660
tccattttaa gaagaaaaaa aatctctcta attgactatc tgaagatata tgaaaaagcc 720
tatgctttta aattaaactg ttaagacagt ccattgaaag attgtggaag ttcacatcta 780
ttttgcacct taattttttc attgtcccta ctcatgactc taaaaagtgc atggcttggg 840
gctatacttt gttttgcagt ttgttgggtat cgtgcctttc cttatctaca ttagcttaga 900
ctataacctta tttttaagaa gagaaagtgg aaattaactg tggcaaaacc tattttggca 960
caaccacatt tgttcattat acaaaattag ctctctatgc tttagaaaaa atgtgagtta 1020
ttactctgaa agttgtgatt ctgattcctc atgggttggga gctcagaaat ttcttaacat 1080
gtcttttctg ttagtcaagc acaggatttg ttttctgcaa aagtttattt tcaatgaaga 1140
atacttgtcc taatagctca taaaaagtac ctttgcactt taaatcctag gaatagggaa 1200
caaggaaact tactgggaag ttcaaaaagaa agaataacag gaccttctag tcagcagggc 1260
atgttttgaa aatgttaata cgccatgatt tttgaagacc aatttttagtt caggaggtgg 1320
ttttaaatat tggatgaaaa cttacaggct gttttcaata ttcatttctg aaatacttta 1380
gtatgataga taaatttggg taagtctctg ttcattgtga aatactgttg gaagaatttt 1440
tttcaaaaata aagacttctg aatttgtgta ccaaaaaaaa aaaaaaaacc ncgggggggg 1500
gncccg 1506

<210> 528
<211> 321
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c

<220>
<221> misc feature

372

<222> (315)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (320)

<223> n equals a,t,g, or c

<400> 528

```

ctgcactaca cacgtgttgg tacctattag caaactgcgc tgctctaacc tgccacctat 60
ccctttgccc caacacaact acggttgcca cegtgccac aacaattcca actgtaacac 120
tggttaattgc gtactctgcc acaaatagcc cttgcgggag caccagcatg ctgggcctgc 180
ttgcgttgcc gtctatgtcc acatatatgg cggcgagcgc ctacacaaca nctcttttaa 240
ccttcacgtt ggtgggtaca ttaaaacttg ccatcgtagc cttactcagc agcaacagac 300
ttacctgcaa caacntccan t                                     321

```

<210> 529

<211> 814

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (171)

<223> n equals a,t,g, or c

<400> 529

```

gtgggattgc aggcacccac catcatgccc tgctaaattt tgtacttttg tagagatgga 60
gtttcaccat gttggtcagg ctggtcttga actgctgacc tcaggtgatc tgcccacctt 120
ggcctcccaa agtgctggga ttacaggtgt gagccaccat gcctggactc nttgttggtg 180
ttgtttttaa ttagtgagga gctacaagaa cacatttata aaaattaaga ggaaacagcc 240
ccactgcatt tgagaagggt accatttccct tcgaagttcc tgctgttgcc ccttccctgg 300
gggggagaca ctgtcctgtt tcagtcattc cggtgctttg ctttatagtt ttattaatgt 360
gtttgtgttg gctttgcatg ttttcaaata tatgaatgaa atcatgcaga gtttattctt 420
ttacagtttg ctttttcact tgattatgtt cctgagatgt atccggatta ttgtgtgtag 480
ctgtatggca ttccctttcc ctgctgccta gtgatccatt gaaaatacaa taattgattt 540
ttctatgttg ttccactggg catttttctg ccctgtgcc ctttggaat catctcctaa 600
actctagtct cggcccttgc tcttccatgt aaccttgaga atcagcttgt caaattcccc 660
ccaaaaaccc cttgagatgt agaatgkaac ccagctgaat ctatagrtca gtctggataa 720
aatcagcacc tgtgtaaaat tgaattttcc cattcatgag cagggtttat ttctgcactc 780
aatgttttca ataaagttgt gtaccttttc ccat                                     814

```

<210> 530

<211> 326

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (254)

<223> n equals a,t,g, or c

373

<220>
 <221> misc feature
 <222> (273)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (289)
 <223> n equals a,t,g, or c

<400> 530
 ggactgagct cggcgcctct agtgtagatg ggtttttaat tttcccagct gaacgtcggt 60
 atttggattg tgatttcttt ggtgwtccaa tggactgtag atgaaggagg acctgttttc 120
 tctcaggagt gtctgtgggg tctcttgtec tggtttgctc agtgaagtgt ggccccaagg 180
 gctgagggag gtggccagga ccccgagggg tggcccccac cacagaggct gctgtcctac 240
 gggttcttct ccantttctg ggaccttgcc gangagcctc tgggagggng aaatggccac 300
 aggcctggag aatcgacacc cgggtgg 326

<210> 531
 <211> 564
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (470)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (501)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (521)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (564)
 <223> n equals a,t,g, or c

<400> 531
 gggcctggtg ggcccgtgct tgggtgtgcag ggctggtgcc ttgggtgcag atggcaagca 60
 gaaagggtg gataaagaat tctttcttct cttcactgtg ttggatgaga acaagagctg 120
 gtacagcaat gccaatcaag cagctgctat gttggatttc cgactgcttt cagaggatat 180
 tgagggcttc caagactcca atcggatgca tgccattaat gggtttctgt tctctaacct 240
 gccaggtg gacatgtgca agggtgacac agtggcctgg cacctgctcg gcctgggcac 300
 agagactgat gtgcatggag tcatgttcca gggcaacact gtgcagcttc agggcatgag 360

374

```

gaaggggtgca gctatgctct ttcctcatatc ctttgtcatg gccatcatgc agcctgacaa 420
ccttggggaca tttagatatt attgccaggc aggcaagcca tcgagaacan ggatgaaggc 480
aatctataat ggctccaatg ncctggggcac caagccaccc ntggcaacgc ttccaacttg 540
caagaatcta ctatttcatg gcan 564

```

```

<210> 532
<211> 616
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (149)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (613)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (616)
<223> n equals a,t,g, or c

```

```

<400> 532
gttccaggaa ccagcaaaca agaggctgct cccgcaggag gcagtgtgaa tggagaaaga 60
aggctgcagt aggggctgct gctggactcg gtggggagca ggtgcaagga gctctggctc 120
ccccatggac ctgagctgga gagcagagng cagctccagc ccattcctca ttcttccagg 180
gcacagtcct caggatgttt cgggggagaat aggagccaga acctgagccc ctaagccatt 240
cccctcacca atgatggggg ccccgagtga tcatctgctg gccggcttct gtgtgtgggt 300
cgtcttgggc tgggtagggg gctcagtcct aacctgggccc ctgctgagca ggagcagaac 360
cattacctgg ccagctgtt tggcctgtac ggcgagaatg ggacgctgac tgcagggggc 420
ttggcgcggc ttctccacag cctggggcta ggccgagttc aggggcttcg cctgggacag 480
catgggcctc tgactggacg ggctgcatcc ccagctgcag acaattccac acacaggcca 540
cagaaccctg agctgagtgt ggatgtctgg gcagggatgc ctctgggtcc ctcagggtgg 600
ggtgacctgg aanaan 616

```

```

<210> 533
<211> 649
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (644)
<223> n equals a,t,g, or c

```

```

<400> 533
ggccagcatg gatcctgaca gtgatcaacc tctgaacagc ctcgatgtca aaccctgcg 60
caaaccctgt atccccatca tcatagcact actgagcctg gcgagtatca tcattgtgg 120

```

375

```

tgtcctcatc aaggtgattc tggataaata ctacttcctc tgcgggcagc ctctccactt 180
catcccaggg aagcagctgt gtgacggaga gctggactgt cccttggggg aggacgagga 240
gcactgtgtc aagagcttcc ccgaagggcc tgyagtggca gtccgscctt ccaaggaccg 300
atccacactg caggtgctgg actcggccac agggaaactgg ttctctgcct gtttcgacaa 360
cttcacagaa gctctcgtg agacagcctg taggcagatg ggctacagca gcaaaccac 420
tttcagagct gtggagattg gcccagacca ggatctggat gttgttgaaa tcacagaaaa 480
cagccaggag cttcgcattg ggaactcaag tgggcctgt ctctcaggct ccctgggtctc 540
cctgcactgt cttgcctgtg ggaagagcct gaagaccccc cgtgtggtgk ktggggagga 600
ggcytctgtg gattcttggc cttggcargt cagcatccag tacnacaaa 649

```

<210> 534

<211> 723

<212> DNA

<213> Homo sapiens

<400> 534

```

tcctctaaca cattcagact acaagtccag acccaggaga gcaaggccca gaaagagctg 60
gaaaggcagc tcatcatgca gagtgaatg agggaaagac aaatggccat gcagattgcg 120
tgggtctcggg aattcctcaa atatttttga actttttttg gccttgcagc catctcttta 180
acagctggag cgattaaaaa aaagaagcca gccttcctgg tcccgattgt tccattaagc 240
tttatcctca cctaccagta tgacttgggc tatggaaccc ttttagaaaag aatgaaaggt 300
gaagctgagg acatactgga aacagaaaag agtaaattgc agctgccaaag aggaatgatc 360
acttttgaaa gcattgaaaa agccagaaaag gaacagagta gattcttcat agacaaatga 420
aatcatgctt accaatcaaa tctcaaagca cagaattatt gacttgaatc atggttttta 480
cagtttttta aatgctcaag attttgatat tatagatttt attttaaaat attaaaatgc 540
aagatagttt tgagctattt taaaataaaa ttataacat tcaacacaaa atcatggagg 600
tgctctaaat aactttttaga ttctctctct ctgtgtgcat taccaatatc taagtgtaaa 660
attaataaat tgttttgaat tcctggaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 720
aaa 723

```

<210> 535

<211> 796

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (742)

<223> n equals a,t,g, or c

<400> 535

```

gattggaagg cgtgtttccg gctggactga aatcctgtga ggaagattcg cgccctcccc 60
gccccctgcc ctccctggga atcctctgaa gatgcggccc cctgtccttc gtgaaccgag 120
agccccggcc tcggccccgg cccagccctt tccggggggc gaccggggct gggacttcgg 180
gggtcctagc ctgagcccg ctcggggagaa caggcccggc cgctgtgggg aggggcccgcg 240
cgctatcctc gccggggggc ctggggaggc aacacgtgcc cgccgccccca gccctgcgcg 300
aacttcgtcg cgccartctt ccggcaaagg gtctcttttt tttagttag gtaaaataaa 360
atctcccaga gaaaacaaa cggggaaggg agccccctt ctgtgaaacg catgccatct 420
tctccatttg tcagtttgat gctgtaacgt acatgggggt ttgcaagagc ttcaaaactg 480
tctgcagacg tcaatttcgc cctccccct gtgagaactc gctacgtarc cagcaactgt 540
gtagtgtctac aaatgatgaa aacgatcaga aatgcgatta ggtgtcgggg aaaaaaggg 600

```

376

```

ttcccctgkt tttaacttgk atttttactt taattgttac aatcttgata ttcttaacgt 660
gacttttttg ggaaaccacc aagtgccttt taagcaagga gttactggta tttatgccct 720
taatattcct tcattatagg cntattgaat acgttaatat ctcagtaagt gtatttgaat 780
tataattgac tggctt                                     796

```

<210> 536

<211> 1135

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1107)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1123)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1129)

<223> n equals a,t,g, or c

<400> 536

```

cggacggtgg gncgncgaca caatgggcca yggagttccc gttcgatgtg gacgcgctgt 60
tcccggagcg gatcacggtg ctggaccagc acctgaggcc cccagcccgc cgacccggaa 120
ccacaacgcc ggcccgtggt gatctacagc agcaaattat gaccattata gatgaactgg 180
gcaaggcttc tgccaaggcc cagaatcttt ccgctcctat cactagtgc tcaaggatgc 240
agagtaaccg ccatgttggt tatattctca aagacagttc agcccgaccg gctggaaaag 300
gagccattat tggtttcatc aaagttggat acaagaagct ctttgtactg gatgatcgtg 360
aggctcataa tgaggtagaa ccactttgca tcctggactt ttacatccat gagtctgtgc 420
aacgccatgg ccatgggcga gaactcttcc agtatatggt gcagaaggag cgagtggaa 480
cgcaccaact ggcaattgac cgaccctcac agaagctgct gaaattcctg aataagcact 540
acaatctgga gaccacagtc ccacaggtga acaactttgt gatctttgaa ggcttctttg 600
cccatcaaca tcggccccct gctccctctc tgagggcaac tcgacactct cgtgctgctg 660
cagtcgatcc cagccccgct gctccagcaa ggaagctgcc acccaagaga gcagagggag 720
acatyaagcc atactcctct agtgaccgrk aatttctgaa ggtagctgtg gaggctcctt 780
ggccccataa cagggccccct cgcgcgcgca cacctccagc ccacccaccc ccccgctcca 840
gcagcctggg aaactcacca gaacgaggtc ccctccgccc ctttgtgcc gagcaggagc 900

```

377

```

tgctgcgttc cttgcgcctc tgccccccac accctaccgc ccgccttctg ttggctgctg 960
accctggggg cagcccagct caacgtcgtc gcaccagctc ccttccccgc tctgaggaga 1020
gtcgatactt aacagcttac ccttctccct gccctggggg agacctgggg gtggggcagg 1080
ggaacccctt ttcttgagga acctttnagg acccattttt ttncatttng cattc 1135

```

```

<210> 537
<211> 1234
<212> DNA
<213> Homo sapiens

```

```

<400> 537
gactagtctt agatcgcgag cggccccctt tttttttttt tttttttttt tgttttttgg 60
ctctttcaaa ggtaatggcc catcgatgag catttttaac atactccata gtcttttctt 120
gtgggtgtag gtctttatatt ttattttttt cctgggggct ggggtggggg ttgtcatgg 180
gggaactgcc ctttaaattt taagtgcacac tacagaaaaa cacaaaaagg tgatgggttg 240
tgttatgctt gtattgaatg ctgtcttgac atctcttgcc ttgtcctccg gtatgttcta 300
aagctgtgtc tgagatctgg atctgccccat cactttggct agtgacaggg ctaattaatt 360
tgctttatac attttctttt actttccttt tttcctttct ggaggcatca catgctggtg 420
ctgtgtcttt atgaatgttt taaccatttt catggtggaa gaattttata tttatgcagt 480
tgtacaattt tatttttttc tgcaagaaaa agtgtaatgt atgaaataaa ccaaagtcac 540
ttgtttgaaa ataaatcttt attttgaact ttataaaaaa caatgcagta ccccatagac 600
tggtgttaaa tgttgtctac agtgcaaaat ccatgttcta acatatgtaa taattgccag 660
gagtacagtg ctcttggtga tcttgatttc agtcagggtta aaacaacgga caataaaaga 720
atgaacacat tcctcgtgtg tgattcactc ttgtctaaat gtcccaacct gtgacttctt 780
tactttccac accactaatt atccaagatc ttgaagaagt attgaacctc taataggcca 840
tcctctggca gatcagtaca gtgaacagca ttctggatct tagttttacc aaagattgct 900
ctgagagttc cagggcgtaa atgcccgggca atttcaggat cagcagggtcc acaaaattct 960
cgaaatgtct ttgtagcatt attctgttga atctccattg ctacacaagg gccagaatac 1020
atctctgtca ccatgtcatg atattcggtc actactcctt tataaacttc atagaatttc 1080
tcaacattaa cccgatccat attgaacatc tgcatagctg agatttcaaa acctgcactc 1140
cggatagcca tcaggatctt tcccaacagt ccttcactga cagcatgggg tttaacaatg 1200
caacaggtag aattagtaaa ttttagcagtg tttc 1234

```

```

<210> 538
<211> 1539
<212> DNA
<213> Homo sapiens

```

```

<400> 538
gcaaaatgtg attatgtttg ttggattgca agggagtgy maaacaacaa catgttcaaa 60
gctagcatat tattaccaga ggaaagggtg gaagacctgt ttaatatgtg cagacacatt 120
cagagcaggg gcttttgacc aactaaaaca gaatgctacc aaagcaagaa ttccatttta 180
tggaagctat acagaaaatgg atcctgtcat cattgcttct gaaggagtag agaaatttaa 240
aaatgaaaat tttgaaatta ttattgttga tacaagtggc cgccacaaac aagaagactc 300
tttgtttgaa gaaatgcttc aagttgctaa tgctatacaa cctgataaca ttgtttatgt 360
gatggatgcc tccattgggc aggttggtga agcccaggct aaggctttta aagataaagt 420
agatgtagcc tcagtaatat tgacaaaact tgatggccat gcaaaaggag gtgggtgcact 480
cagtgcagtc gctgccacaa aaagtccgat tattttcatt ggtacagggg aacatataga 540
tgactttgaa cctttcaaaa cacagccttt tattagcaaa cttcttggtg tgggcgacat 600
tgaaggactg atagataaaag tcaacgagtt gaagttggat gacaatgaag cacttataga 660
gaagttgaaa catggtcagt ttacgttgcg agacatgtat gagcaatttc aaaatatcat 720

```

378

```

gaaaatgggc cccttcagtc agatcttggg gatgatccct ggttttggga cagattttat 780
gagcaaagga aatgaacagg agtcaatggc aaggctaaag aaattaatga caataatgga 840
tagtatgaat gatcaagaac tagacagtac ggatggtgcc aaagttttta gtaaacaacc 900
aggaagaatc caaagagtag caagaggatc ggggtgtatca acaagagatg ttcaagaact 960
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tcagtcaatg atgaggcagt ttcaacaggg tgctgctggc aacatgaaag gcatgatggg 1200
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cttcttttct ccctttaata taaggagaa atacatggtt tttgtggaaa tcattatatg 1440
tttgcttttag attttcttct gttttcacca tcataacact taagttaa at catgatgtaa 1500
aatttttagta cctcgccgcg gaccacgcta agccgaatt 1539

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<210> 539

<211> 788

<212> DNA

<213> Homo sapiens

<400> 539

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gagtctcata tccttgact tcagtttttt tgtgtgtgaa tactatccct ataccactac 60
ccctaaaacc tcagaattat ttgctttatt ttttcataca acttggggaa gggaaccatg 120
ggagtatgca catgggatca taatccattc tgtggttttg aaaaagaaaa tgtaacctc 180
tgcttttagag ggtagctact agctttgttg gggataaaag tgtaatacat gcacttttga 240
actctgaaaag tttgccaatc tgaaaagggg tgtttctgaa gaccactatc ttttacgaac 300
acttaaaaaat aagtgtttgc agttgtgtat gggcacgata ctgtattctt tacattttta 360
tgcccttaca gctacttctt atccctgcaa gtatataaat taaaaccaag tcactttaga 420
acagctttga aactagagtt tcaaaggtaa aaggatctca tgtttctgaa tctgcgtaaa 480
gcaagatggc tgtgatattga caggtttaat tgctagkttt tataggtgga tagaaatgaa 540
tagtttgag tctttaaaaat gttttaaaaa atgtttgctt actatctata tatatgacat 600
tattcccaat tagttttata tctccaagat atatatatgt atataggtat atacacatat 660
gtatatatac atagtctata tattctatat aagaatatat tccaataaga atatattcca 720
tacgggaata tatttagtcat tgatgtattt tgccggtaaa attaaaagat attttaacaa 780
aaaaaaaaa

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<210> 540

<211> 874

<212> DNA

<213> Homo sapiens

<400> 540

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ccacgcgtcc gcggacgcgt gggcggacgc gtgggaaaaa agctgcgagg aaattgactt 60
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cagtacagaa aagcttaaga atcgaaaagga gaaaaaaagc cgagatgtag tctctaagaa 180
agaggaacgt aagcgtacaa aaaagaaaaa ggaacaaggc caagaaaagga cagaggagga 240
aatgcttttg gaccagtcta ttcttgatt ttgaagcttt caaagtttgt tctcccaaag 300
ttaaattgaa aaaataggtg agagcttggt tttatgatat ccgtgttcat accacttttc 360
ttatgtgaat aggttcttta acttctaaca aaggcctagt aaacaaagtg tttagcatgc 420
ttgctctcca acacagaaat tgcttttctt cattttctaa aagcattatt acattttttg 480
aacatatagt gtaatttctt ttaatgaaag tgactctgct tttattcatc aaattgcttt 540

```

379

```

gatggtggaa atattttctg ttgggaggtt atttatttta aattggagga ttaatgacct 600
ttgcacaatc tgtttcttga ttgggtttgt tatagttttg agttgggtat tttatgttca 660
ttggtttttc tctgtgaagc aatttttttc tcctttatta gatctaactt gcagtgtatt 720
ttctaggctg gaaagtggaa aatgaaatat attatratct taggttacat aaagtttcta 780
aagtttcaaa gagtcttgat acaaaatcag tttatatctt gaaaatattt ataataaagt 840
attctaattt ctaaaaaaaa aaaaaaaaaa aaaa 874

```

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<210> 541
<211> 549
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (38)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (536)
<223> n equals a,t,g, or c

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<400> 541
tggcggtctt cttcacccgc aacccgagag acgaccncc gggcccgccc cgcggaagcc 60
gccggttgcc aggccaaagga gtggactagg gtcgccgggg aagcggtttg ggagagccca 120
tgggtgactgc gtgagtggag cccagctgtg tggatgcccc agcatggatg actacatggt 180
cctgagaatg attggggagg gctcsttcgg cagagctctt ttggttcarc atgaaagcag 240
taatcagatg tttgccatga aagaaataag gcttcccaag tctttctcta atacacagaa 300
ttctaggaag gaggtgttct ttttagccaa aatgaaacac cctaataattg ktgccttcaa 360
agaatcattt gaagctgmag gacacttgta tattgtgatg gaatactgtg atggasggga 420
tctaatacaa aagattaaac agcagaaaag gaaagttatt tcctgaagac atgatactta 480
atggtttacc caaatgtgcc ttggagtwaa atcacattya cawgaaacgt gtgctnccca 540
agagatttt 549

```

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<210> 542
<211> 467
<212> DNA
<213> Homo sapiens

```

```

<400> 542
ggccagccct ggggcgcctt aaaaaccgga gctggcgctt ggcakcgcca ctctgggcag 60
gatccaacgt cgctccagct gctcttgacg actccacaga taccocgaag ccatggcaag 120
caagggttgc caggacctga agcaacaggt ggaggggacc gccaggaag ccgccatgga 180
ccagctggcc aagaccaccc aggaaacat cgacaagact gctaaccagg cctctgacac 240
cttctctggg atygggaaaa aattcggcct cctgaaatga cagcaggagg acttgggtcg 300
gcctcctgaa atgayagcag ggagacttgg gtgaccccc ttccaggcgc catctagcac 360
agcctggccc tgatctccgg gcagccacca cctcctcggt ctgccccctc attaaaattc 420
acgttcccaa aaaaaaaaaa aaaaaaaaaa aaaaaaagtc gtatcga 467

```

```

<210> 543
<211> 1211

```

380

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1156)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1190)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1193)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1194)

<223> n equals a,t,g, or c

<400> 543

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gtgaaaaaag acactctgac agaagaggag actcagtttt atatagcaga aacagtatta 60
gccatagact ctattcacca acttggattc atccacagag acatcaaacc agacaacctt 120
cttttggaca gcaagggcca tgtgaaactt tctgactttg gtctttgcac aggactgaaa 180
aaagcacata ggacagaatt ttataggaat ctgaaccaca gcctccccag tgatttcact 240
ttccagaaca tgaattccaa aaggaaagca gaaacctgga aaagaaatag acgtcagcta 300
gccttctcca cagtaggcac tctgactac attgctcctg aggtgttcat gcagaccggg 360
tacaacaagc tctgtgattg gtggtcgtt ggggtgatca tgtatgagat gctcatcggc 420
taccacactt tctgttytga gacccctcaa gagacatata agaaggtgat gaactggaaa 480
gaaactttga cttttcctcc agaagttccc atctctgaga aagccaagga tctaattttg 540
aggttctgct gtgaatggga acatagaatt ggagctcctg gagttgagga aataaaaagt 600
aactcttttt ttgaaggcgt tgactgggaa catatcagag agagacctgc tgcaatatct 660
attgaaatca aaagcmttga tgataacctc aacttcgatg agtttccaga atctgatatt 720
cttaagccaa cagatgcctt cctgggggat actcctcccc accctaaagg gtcgectgca 780
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atgtggaggc tccatattaa tgcattattt tttaaaaagt tttgataact cttaaagcat 960
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gagcctgctt tctgccagtc ttgaggttct gaagatcagc tttgaaagga aagtatgtcc 1080
tagcttagcc attcagaaga gaaaaatggr atatcagagt tacagttgtc agtgaaacta 1140
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gcttagctta t 1211

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381

<210> 544
 <211> 1463
 <212> DNA
 <213> Homo sapiens

<400> 544
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 cctccccgcc aagccatatt ctgttggatg agcttcagtg cctaccagac agcctttatc 120
 tgccttgggc tcttgggtgca gcagatcatc ttcttccctgg gaaccacggc cctggccttc 180
 ctgggtgctca tgcctgtgct ccatggcagg aacctcctgc tcttccgttc cctggagtcc 240
 tcgtggccct tctggctgac tttggccctg gctgtgatcc tgcagaacat ggcagcccat 300
 tgggtcttcc tggagactca tgatggacac ccacagctga ccaaccggcg agtgctctat 360
 gcagccacct ttctttctct cccctcaat gtgctgggtg gtgccatggg ggcacctgg 420
 cgagtgtctc tctctgacct ctacaacgcc atccacctg gccagatgga cctcagcctg 480
 ctgccaccga gagccgcaact ctcgaccccg gtaactacac gtaccgaaac ttcttgaaga 540
 ttgaagttag ccagtcgcat ccagccatga cagccttctg ctccctgctc ctgcaagcgc 600
 agagcctcct acccaggacc atggcagccc cccaggacag cctcagacca ggggaggaag 660
 acgaagggat gcagctgcta cagacaaagg actccatggc caagggagct agggccgggg 720
 ccagccgagg cagggctcgc tgggggtctgg cctacacgct gctgcacaac ccaacctgc 780
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 gttkggtgga ggtctgtctg cactgggagc ctcaggaggg ctctgctcca cccacttggc 1020
 tatgggagag ccagcagggg ttctggagaa aaaaactggt ggggttagggc cttggtccag 1080
 gagccagttg agccagggca gccacatcca ggcgtctccc taccctggct ctgccatcag 1140
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 tctctgggga gtggccggaa agctcccggg cctctggcct gcagggcagc ccaagtcatg 1320
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 ttatgccttt ggctattatg aaagaggtta gtgtgttccc tgcaataaac ttgttctctga 1440
 gaaaaaaaaa aaaaaaaaaa aaa 1463

<210> 545
 <211> 536
 <212> DNA
 <213> Homo sapiens

<400> 545
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 gttgataatg caatagataa tgkraaagaa attcaagttg cattggytat cttaatggca 120
 gcttatgcaa tggcggaagc gtttatgtca acaggagttg gagcttctct tatectaatt 180
 gcattaaaaag taggaattac tgctaaaact gttgcagtta taggagctat tgtcacatca 240
 atattatcaa tagcaactgg gacaagttgg ggaacatttg cagcctgtgc acctattttt 300
 ttatggctaa atcatatagt tggcggaagt attttattga caacagcagc tattgcagga 360
 ggagcatgtt ttggagataa tataggactt atttcagata ctacaatagt aagttctggt 420
 atccaaaaag ttgaagttgt aagaagaatt agacaccaag gtgtatggtc agcattagtt 480
 ttattatcag gaataatagt atttgcattt gttggattta catggattta cccttc 536

<210> 546
 <211> 588
 <212> DNA

382

<213> Homo sapiens

<220>

<221> misc feature

<222> (572)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (577)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (585)

<223> n equals a,t,g, or c

<400> 546

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tttttttttta atttccatat gggctaaaga atccaaatat tttaaaaatc tgtctctctt 60
ttcttctctc ataaagtga ttattccttt tttttgtttt atgtaagtgt atatatctt 120
agtttttctt gaaatcattg taatgttaac tttgttggtt caaatatctt ggtgattgct 180
tcattatctc ttcaacaaaa aaaaccttta attttgccat tgaaactgta gaactatgcc 240
atgcttttat tagaagcagt gctctgtgtt aacaacaaga atggtgtaat tagaattggg 300
atgtggatat ttactgtatg acaacacatt tacagttctg taatgcaagg atgcagttta 360
aaaatgtgaa gtagtgatgg tttttgaaat aagcttttaa atatagggat cttgaaggct 420
ccctggggta actattttat aacttagata aaatggctag tcatatctgt gtgtttgtaa 480
agttattttt ttaatatattt aagrttacia ttttaacaat gtagraatga gccaaacttt 540
taaatkkaa acagtaarac aaatggaaac cnatagntca caaantcc 588

```

<210> 547

<211> 1585

<212> DNA

<213> Homo sapiens

<400> 547

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ttttttttttt tttttttatg agcaggagat cttaattgac agaaactcat tgggtggttg 60
agtggccaat ggcacgggaa aaagtatcca gtaatcagaa gaattgtatc tgggttatgt 120
aatcttatgc acattccatt gtctttgcca agcccagaag ccatgttggt ttcatgttta 180
agaaatttga tagatttacc cagcttttct atgtattttg acttattgaa aatatgtaac 240
aactgagtcg gggtgcagca ctgggtgggt agaatcgact ttccctgaag gtgacacaga 300
tgtcagaatt gtgtccaggg atttaattta gaccataact gtccaggaga ctgtctctas 360
ytggatctct gtgctgactg actgacagac agacttttagt gtctgtgtgc tgactgacag 420
actctagtag tgtctatatg ttgaccaact ggttagaccag gaggatctgt gtgctgattg 480
actctagtag gatctgtttg tcaactgacag actgtagtag tgtctgtgtg ctgactgata 540
gatagactat agtaaaattt ggggtgttgcc tgactaacgg tctagggtct gtaagctgac 600
agtctgcctg ctttctgatt gtatccattg aagtgtatgt acattatggt aattctctgt 660
ctattaaatg tgtctaacia aggaaggaat taagcactcc acrtgttttc tttatagggg 720
agttctgtac actatgattt taaatagata tttcttatat agtagtgccc aaattctcat 780
tattttgtac aagataaagg ttatgcatca cttttatggt attttgtgaa ctcagctaag 840
ggaatgcctg ttcagagcct ggagttgtta cctttacttg aagtcactct atccagtecc 900
ctgctttagg gcaggacttc agttccactg ttcatttctg aagcttctgt gtccccagct 960

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383

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taccctgttc tgraatgttg tattccattg gacagggctg ctatttttag tcagccatgc 1020
atttggattt tacrcttaat ctagtaagta aaaatgagaa gaaaatttgg catttaaaaa 1080
ttgatttttaa gggttggcaa aagtattttt tccagtaagc ctttctactgg atatctgtga 1140
ccaatgttta cctacgcaat gtttttgtat ctgaattgct tatgtacgtt ttttattata 1200
ttgacctaac aagaagatca acttatgctg gtatgggtgat ggttttgcta tggcaaaatc 1260
aaagggctga tcatacatgg tgcccttttg gaagggggat ggtgtggggc tgagcacctc 1320
tgggttgaat gggaatgggt cagattggga agcctaggaa gagagttcta ctgtagattt 1380
cctaggcact gctctgttga aataggaaca taagtcttta gcaacattct gatttaatcg 1440
ggtgacactg ataacaaagt atgccactca gatccattta aagtgtgcat aactgtattt 1500
gaaatgtgtt tttgtgtgcg tgtgtgtaga atgggtaaat aaaattgttg agtaacttga 1560
acctaataaaa aaaaaaaaaa aaaaaa 1585

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<210> 548

<211> 1279

<212> DNA

<213> Homo sapiens

<400> 548

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aggtatccag gccagctggg aaggacatga tgaggaaatt ggaaaaacat atgactgcak 60
agaaggggccc catgattgtg ttggtattgg acgagatgga tcaactggac agcaaakgcc 120
aggatgtatt gtacacgcta tttgaatggc catggctaag caattctcac ttggtgctga 180
ttggtattgc taataccctg gatctcacag atagaattct acctaggctt caagctagag 240
aaaaatgtaa gccacagctg ttgaacttcc caccttatac cagaaatcag atagtacta 300
ttttgcaaga tcgacttaat caggtatcta gagatcagggt tctggacaat gctgcagttc 360
aattctgtgc ccgcaaagtc tctgctgttt caggagatgt tcgcaaagca ctggatgttt 420
gcaggagagc tattgaaatt gtagagtcag atgtcaaaag ccagactatt ctcaaaccac 480
tgtctgaatg taaatcacct tctgagcctc tgattcccaa gagggttggt cttattcaca 540
tatcccaagt catctcagaa gttgatggta acaggatgac cttgagccaa gaaggagcac 600
aagattcctt ccctcttcag cagaagatct tggtttgctc tttgatgctc ttgatcaggc 660
agttgaaaat caaagaggtc actctgggga agttatatga agcctacagt aaagtctgtc 720
gcaaacagca ggtggcggct gtggaccagt cagagtgttt gtcactttca gggctcttgg 780
aagccagggg catttttagga ttaaagagaa acaaggaaac ccgtttgaca aagggtgttt 840
tcaagattga agagaaagaa atagaacatg ctctgaaaga taaagcttta attggaaata 900
tcttagctac tggattgcct taaattcttc tcttacaccc cacccgaaag tattcagctg 960
gcatttagag agctacagtc ttcatttttag tgcttttacac attcgggcct gaaaacaaat 1020
atgacctttt ttacttgaag ccaatgaatt ttaatctata gattctttta tattagcaca 1080
gaataatatc tttgggtctt actattttta ccataaaaag tgaccaggta gacctttttt 1140
aattacattc actacttcta ccacttgtgt atctctagcc aatgtgcttg caagtgtaca 1200
gatctgtgta gaggaatgtg tgtatatatta cctcttcgtt tgctcaaaca tgagtgggta 1260
tttttttgtt tgtttttaa 1279

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<210> 549

<211> 1389

<212> DNA

<213> Homo sapiens

<400> 549

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ggaatgttag atcaccttaa caagaaggag ctccggggcc aactcaagat ggtggacagc 60
tttcacaggg tgagtctaca ttatgggatt atgtgcctga aacggctcaa ctatgaccgg 120
aaggacctgg agcggaggcg ggaagaaagt cagaccacga tccgagatcc ccacgcagaa 180
tgcacagggtg agctgccgct gggccccggg catgctgggc gtccccacct cgcagactgc 240

```

384

```

acgctccaac cgccscctcc acctmctctt tccaggcccg gcagcttctg gagaaggaat 300
tcagcaacct tatctcctta ggcacagaca ggcggctgga cgaggacagc gccaagtctt 360
tcagccgctc cccatcctgg cggagatgt tccgggagaa ggacctccga ggcgtaactc 420
ccgactcagc tgagatgttg ccccccaact ttcttctggc tgcagcggga gccctgggct 480
ctccggggct cctctccgc aagctgcagc cagaaggcca gacttctggg agttcccggg 540
cagacggcgt ttgggtccgg acctattcct gctagtgcag gcctccaggt gacctcactc 600
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agtgcgcgcg cccgcctcgc acaggggccgg ggctggacc aaaccacatg aactggactg 780
agagggggaa gaagcgggga ggaagaaatc ccgccccaaa cgtccgcttt cttttctct 840
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gggcggggct tccctcccg ggcgcctgcg gggagagggt gtcctctccc ctttttctg 960
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cttccccctt cctctgggt ccgggggttg catgggagaa tctctttcc acgatgccgc 1260
tgggcgacgt ggcgtggggg cagggggacg gtgggggagc cctcgcccc gactctcgg 1320
cggcctcccc gccccaggcg tcactcagtg atcacgggta aagagaactg tttcaaaaaa 1380
aaaaaaaaa 1389

```

<210> 550

<211> 539

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (228)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (508)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (515)

<223> n equals a,t,g, or c

<400> 550

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ggaaggcaag ggtatttttt acaacatcaa aaactttgtc cgattccagc tgagcacgag 120
catctccgcc ctgagtctca tcaactctgtc caccgtgttc aacctgcccc gcccccctcaa 180
cgccatgcag atcctatgga tcaacatcat catggatggg ccaccggngc agagggtgagg 240
cagggcggct gggagccctg tgtctcttta cctacctgcg gggttctctc caggggctgc 300
tggtctgtcc caaggctata gggatgaaca aatacagcca ctttccatca ggagttccca 360
gaaaactgaa gtgtgttgca ctggagtggg actgggagta gaaggcagag gagaaaagtac 420
ctgggccggc agagctgggt gaggatggaa ctttctgctt cctctggctg gatgctctct 480
ctgggcaaac ctgcatgggt taattctnat gcttnaattt caagtcaccc agtcaactgg 539

```

385

<210> 551
<211> 1089
<212> DNA
<213> Homo sapiens

<400> 551
gacactattg aaggtacgcc tgcagggtacc ggtccggaat tcccgggtcg acccacgcgt 60
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aaaaaaaaa 1089

<210> 552
<211> 1938
<212> DNA
<213> Homo sapiens

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<222> (555)
<223> n equals a,t,g, or c

<220>
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<222> (1521)
<223> n equals a,t,g, or c

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386

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aaaaaaaaaa aaattact
1938

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<210> 553

<211> 1442

<212> DNA

<213> Homo sapiens

<400> 553

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387

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<210> 554

<211> 1446

<212> DNA

<213> Homo sapiens

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<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<400> 554

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388

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<210> 555
 <211> 1278
 <212> DNA
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1235)
 <223> n equals a,t,g, or c

<220>
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 <222> (1245)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1252)
 <223> n equals a,t,g, or c

<400> 555
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389

<210> 556
 <211> 2001
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1979)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1991)
 <223> n equals a,t,g, or c

<400> 556
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390

<210> 557
 <211> 2524
 <212> DNA
 <213> Homo sapiens

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 <222> (308)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (596)
 <223> n equals a,t,g, or c

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391

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cgag 2524

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<210> 558

<211> 2667

<212> DNA

<213> Homo sapiens

<400> 558

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392

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ggaaactata aagtaattac acatgtaatc ttgggttttt cacatatgta ggtattcatt 2160
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<210> 559

<211> 2607

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<400> 559

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aacatttgta gcattgattt cccggatctg gtaacatggc aaaagatgcc ggtctaattg 180
aagccaacgg agaactcaag gtcttcatac accagaacct tagtcccggg aaaggcgtgg 240
tgtccctcgt ggccgttcac cctccaccg tcaaccgcgt cgggaagcag ctcttgccaa 300
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393

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aattatattg actgtttgtga ttccatcaag tttgtacact cttttctctc cctgttttgc 1980
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```

<210> 560

<211> 1837

<212> DNA

<213> Homo sapiens

<400> 560

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394

catcagcctt ttcaagtatt taaataaata actgctgtgt actgtgatct tgagttcttt 1800
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<210> 561
 <211> 1682
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (3)
 <223> n equals a,t,g, or c

<400> 561
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 caaggtccac atctcaggga cactgtggtg gacctatgtc atmagcgtgg tgttccggct 480
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 ac 1682

<210> 562
 <211> 1694
 <212> DNA
 <213> Homo sapiens

<400> 562
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395

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gcggggcgcct gtaatcccag ctactcggga agctgaggca agagaatcgc ttgaacccag 120
gaggtggagg ttgcagttag ccaagatcgc gccactgcac tccagcctgg gcgacagagt 180
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cactaaaaaa aaaa 1694

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<210> 563

<211> 949

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (867)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (874)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (914)

<223> n equals a,t,g, or c

<400> 563

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396

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<210> 564

<211> 503

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (500)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (501)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (503)

<223> n equals a,t,g, or c

<400> 564

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aggatttcct ttttctgctg acaaaacgtc ttttcacaac ttaccctgtt aagtcaaaat 180
ttattttcca ggaatttaat atgtacttta gttggaatta ttctatgtca atgattttta 240

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397

```

agctatgaaa aataataata taaaacctta tgggcttata ttgaaattta ttattctaata 300
ccaaaagtta cccacacaaa aagttactga gcttccttat gtttcacaca ttgtatktga 360
acacaaaaca ttaacaactc cactcatagt atcaacattg ttttgcaaat actcagaata 420
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ttaaattatg taaaaagtcn nan 503

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<210> 565

<211> 374

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<400> 565

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aagaagaagt gttcaccaca tagttgcaaa ggtcttcaac ttgccacagc caacagaaaa 180
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aatgcttttg aggaaaatca taaaaagaca ggaagacatc ataagacatt tctggatcat 300
ctcaaagtgt gttgtaactg ttccccacaa aaggcaagag aattgtcctc tctttgnttc 360
ccatagcatt ttgg 374

```

<210> 566

<211> 1652

<212> DNA

<213> Homo sapiens

<400> 566

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ctgctgcata ctgctaaatg gcacctctgg gattggccta cctggggatt tcttggtttg 180
tgaaaacagg agaggagaaa tatctcatal aagtgaagg atactggaga gagaaattac 240
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ctggtttcaa cagacacaaa tttatatgtt aaccagttt tcttgccgtt ctgtaagtgt 360
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398

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gggattcatt ggcaaataat ttcagtgtgg tgtattatta aatagaaaaa aaaaattttg 1260
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tcagctgtgg catgctcaga ggttcctgct ggattccagc tggagcgggtg tgataccctt 1440
ctttttcagc tgttcgtgcc ttcttttctt gtatccacca aagtggagac aaatacatga 1500
tctcaaagat acacagtacc tacttaattc cagctgatgg gagaccaaag aatttgcaag 1560
tggatggtht ggtatcactg taaataaaaa gagggcctgg gaattcttgc gattccatct 1620
ctaaaaaaaa aaaaaaaaaa aaaaaaaaaa aa 1652

```

<210> 567

<211> 1291

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1192)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1252)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1286)

<223> n equals a,t,g, or c

<400> 567

```

tgaacctcta atagaactgt ctaaccctgg agccagtgga tccttgthtt ttgtgaccag 60
tgatgatgaa tttatcatca aaacagttca gcacaaagaa gctgagthtc ttcagaagct 120
actgccaggc tattacatga atttaaaacca gaatccaagg actctthttgc caaaattthta 180
cggactgtat tgtatgcaat caggaggcat taatatcagg attgtgggtga tgaacaacgt 240
tttgccacgc tccatgagaa tgcactthtac atatgacttg aaaggctcaa cgtataagcg 300
aagagcatcc cgtaaagaga gagagaaatc caaccccaca tthaaggact tagattthcct 360
gcaagacatg cacgaagggt tgtatthttga tacggaaaca tacaacgcgc ttatgaaaac 420
acttcagaga gactgccggg tgctagaaaag cttcaagatc atggattata gcctthctgtt 480
gggaattcat thcctggacc attccctcaa agagaaaagag gaggagaccc cacaaaatgt 540
gcctgatgct aagcggactg ggatgcagaa ggttctctac tcaacagcca tggaatctat 600
ccagggtcca gggaaatctg gagatgggat aatcacagag aaccagaca caatgggagg 660
cattccagct aaaagccata ggggagaaaa actactthta tttatgggca ttattgacat 720
tctgcaatca tataggthta tgaagaagtt agaacattcc tggaaaagctc ttgtthtatga 780
tggggacact gthttctgtt atagaccaag cthttatgca gacagatthc ttaagthcat 840
gaattccaga gthttcaaga aaattcaagc thtgaaggct tcaccgtcta agaaacgggtg 900
caattcaatc gccgccctaa aggccacttc acaggagatt gtgtcctcaa ttagccagga 960
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agaagccctg ggatcccgac acaggccaga cctggtccct agcactccat cactgthttga 1080
agctgctthc ttggcaacca caattthcatc thtctctta tacgtcaatg agcactatcc 1140
acacgacagg cctacactct attthcaaca gcaaagggtt accttccagk tncaacattt 1200
tacctthggga aggggggacc thttactthg accgtthggg cccaacattt tnggaagtht 1260

```

399

cagggtgaca ttgtttttgt ggtttngacg t

1291

<210> 568

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (393)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (398)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<400> 568

```

gggaaagntg gtacgcctgc aggtaccggt ccggaattcc cgggtcgacc caccgcgtccg 60
gcttttttatt ctgtggaagt aaaatcctga acgtttacaa cttttcctta acttgtaaat 120
aaaaaattgt aagttttttc tttttttaca gaaaacttag cttgtgtaat tctgttagtt 180
tcagattttct ctctgttttt tgcaaattgt gggaaagatt gacaatgcaa atgtgtcaaa 240
gacatactgt tgggtgcaat attaacaalt ttaaatgcaa atttctttgg ataaattatt 300
tctatattct gtaaatctga gatttaattgt atattttggt taaaaaaatg atttagtaaa 360
atctttgaaa agtatgatct tctaaagnat ttnaaaanaa aaaaaaaaaa aaaaaaaaaa 420
aaaaaaaaaa aaaaaaaaaa aa 442

```

<210> 569

<211> 2084

<212> DNA

<213> Homo sapiens

<400> 569

```

tgctctgtcc cccttaacaa accagggggc atggaggggc ccaggggcacc gccccctac 60
caggctcagg ccctccaagg agaacctgct gagacccctg agcctgtcct agacccccgga 120
cccctgaccc ttcccacccc ttccagcgtc ccagggcgag gccttggaca gagctcctgg 180

```

400

```

tcctctgcag ggagaccatc cagcccaagc tctgggaggg acagtccatt gagtgggagg 240
aggccgcggg tgctgagccg gggaggggtg tgggagtgca tccatccctc agacgggaag 300
tcccacaggg tccaaccac ctgaaacctg cctgcacggt ggaagtgggtg gaggtggaca 360
ctcctagggg cttttctaaa gctagactcg cagctccttg ctcaggaaaa ttaaactatt 420
cacgtttcag atcaagtgtt gacagtcacc agtcaggagg agttctttaa gagttttatg 480
ttgactgaat attgcacatt gagtcccat tgagtccctg gtgggaaaag tccacaattt 540
cccattgata gctttttact gttgtgaaaa aggggaagcg cagcacacaa aagcctgcat 600
gaccgtgct tcggagaagy tctcgacct aactgcagtc actgttactt ggatcagatc 660
aagcgcagtg actttttggg attcagtggt tattctccac acttcgtagc catttcaacc 720
aactctgagc aaaaaatgca gccatccctc atgcagcaag ccttgcccag tcagtgaacc 780
tactggacag atccaaggcc agccctgggt tccctgctgc agccaccgtc ctgacgttca 840
tcggagcagg ccggggctgg ctttcccggc acaagtggct gttctgacag gccccagtt 900
tgtcccatct gaactgctgg gaggtttccg ggtggccaga ggagcaaagc tgccttccaa 960
gtgcctgtct gtgcctggga gaacagagca ggagcgtcgt gcggtccacc gcgcagtga 1020
tggcgattcc aggcgctgaa caactccct ggacccttgg gcctgcatct gactcccagc 1080
tgcagagtca gaagctgagt ccaggcaact gcttgccac tcccgatcgc tctccctgg 1140
acaccgggt accaaagtca gcaaagaaga tgcggtaatc gccgcctgat ctccacatgg 1200
tgaacacaac actcccacca acacctcctt gactggctcg tcttcagcac cgggggtggg 1260
caggcaggtg ttctgtgttg acragaattg cacaggctaa acacaaacac ggaaccagag 1320
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ggctgtgggt gccaggggct gagtgttagg gactcgtcat gagtggggat cccacgttc 1440
ctgtcactgc tgtcaaacag aaggtaaaca gtcttatgaa tgtatttct taggaaaact 1500
tgtaaaaact tttattagga tatctattta atactgaact ttggcctact ttgtgataga 1560
ctataaacia attgaggaaa tcactatttc tcacttctgt attttctcaa aaataatttt 1620
gttacagagt tcaatatact gtgtaccatt gatcttctat tgtgaaagca aagaatttca 1680
tcaaaatatt ttaattatg agtgaaaatt gtgtatgtta attttgcagc tataatatta 1740
atcaaatatt gtgtaattct aatcacaaaa tgacgtgctt taagtgtccc tccagctgtg 1800
ggttggcagt gtccagacag ggagggccca tcaccgaaat cctgaacgat tactagacca 1860
attctattaa aaacatttca aggcattttg ggtgcaaact ttgtttataa aagagaaata 1920
tccacctatg agaatttaag gagacgtctc ctgtaggcag acatcgctct gcccaaaaat 1980
tagtactgac acatgcgtgt gtgtgcgcgt tgtgtgcgtg tgtgcgtgca cgtgctgttg 2040
ctgcccttcc tagctggtgt gaggaagccc ggacgcgtgg gtcg 2084

```

<210> 570

<211> 982

<212> DNA

<213> Homo sapiens

<400> 570

```

ggcacgagct tacagacgct gccagcatcg ccgccgccag aggagaaatg tctgaagtaa 60
gaccctcttc cagagacatc ttgatggaga cctcctgta tgagcagctc ctggaacccc 120
cgacatgga ggttcttggc atgactgact ctgaagagga cctggaccct atggaggact 180
tcgattcttt ggaatgcatg gagggcagtg acgcattggc cctgcggctg gcctgcatcg 240
gggacgagat ggacgtgagc ctcaggggccc cgcgcctggc ccagctctcc gaggtggcca 300
tgcacagcct ggggtctggct ttcattctacg accagactga ggacatcagg gatgttctta 360
gaagtttcat ggacggtttc accacactta aggagaacat aatgaggttc tggagatccc 420
cgaacccccg gtccctgggtg tccctgcgaac aggtgctgct ggcgctgctg ctgctgctgg 480
cgctgctgct gccgctgctc agcggggggc tgcacctgct gctcaagtga ggccccggcg 540
gctcaggggc gggctggccc ccccccatg accactgccc tggaggtggc ggccctgctgc 600
tgttatcttt ttaactgttt tctcatgatg cttttttata tttaaacccc gagatagtgc 660
tggaaacactg ctgaggtttt atactcaggt tttttgtttt ttttttatc cagttttcgt 720

```

401

```

tttttctaaa agatgaattc ctatggctct gcaattgtca ccggttaact gtggcctgtg 780
cccaggaaga gccattcact cctgccccctg cccacacggc aggtagcagg gggagtgtg 840
gtcacacccc tgtgtgatat gtgatgcctt cggcaaagaa tctactggaa tagattccga 900
ggagcaggag tgctcaataa aatgttggtt tccagcaaaa aaaaaaaaaa aaaaaaaaaa 960
aaaaaaaaaa aaaaaaaaaa aa                                     982

```

<210> 571
 <211> 872
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (865)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (867)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (870)
 <223> n equals a,t,g, or c

```

<400> 571
gaagcaccct taggatacca ggaccctgtt tcccttcgga gaagacacac aaccatgacc 60
ctcagcctgg ggaccccaac tccaggccct ccagccccaac acctgcccag ccagccctga 120
aatgcaagt cttgtacgag tttgaagcta ggaaccacag ggaactgact gtgggtccagg 180
gagagaagct ggagggttctg gaccacagca agcgggtggtg gctggtgaag aatgaggcgg 240
gacggagcgg ctacattcca agcaacatcc tggagccctt acagccgggg acccctggga 300
cccagggcca gtcaccctct cgggttccaa tgcttcgact tagctcgagg cctgaagagg 360
tcacagactg gctgcaggca gagaacttct ccaactgccac ggtgaggaca cttgggtccc 420
tgacggggag ccagctactt cgcataagac ctggggagct acagatgcta tgtccacagg 480
aggcccccacg aatcctgtcc cggctggagg ctgtcagaag gatgctgggg ataagccctt 540
aggcaccagc ttagacacct ccaagaacca ggccccgctg atgcaagatg gcagatctga 600
taccatttag agccccgaga attcctcttc tggatccag tttgcagcaa accccacacc 660
ccagctcaca cagcaaaaac aatggacagg ccagagggst gaagcaaaaca gtgtcccttc 720
tggctgtgtt ggagcctccc cagtaaccac ctatttattt tacctctttc ccaaacctgg 780
agcatttatg cctaggtctg tcaagaatct gttcagtcct tctccttctc aataaaaagca 840
tcttcaagct tgtaaaaaaa aaanantan aa                                     872

```

<210> 572
 <211> 733
 <212> DNA
 <213> Homo sapiens

```

<400> 572
gectgcgcgg actcccgcct tagtggggcgg agttgtgccg cgtctgatgc gcagttccct 60
ttatagcgcg gcaagccgaa tcctagaggc taaccgcgga ggtgggaggg agaaagttgc 120

```

402

```

tttctgcacc aatagctgag gcgttcagggt ttgtccagggt acgctaccct cacgtgtctg 180
gttccgagtg ctgcgttcgg ctgtgctggg aagttgcgta gacagtggcc tcgagaccct 240
gcctgcctga ggaggcctcg gttggatgag aaggagctgc agcatccagg ggacaagatg 300
ccaactggca agcagctagc tgacattggc tataagacct tctctacctc catgatgctt 360
ctcactgtgt atgggggggta cctctgcagt gtccgagtct accactatct ccagtggcgc 420
agggcccgag gccaggccgc agaagaacag aagacctcag gaatcatgta gaactggggg 480
gctttttctc ctgagcagag agggccaagg catgctgtgg agagacttca cctgccacca 540
tttccaggtc aacaggacta gagcgttgat ggttttcaaa ccctgttgga agaaagtgcc 600
catggtttct ctggttctgc cagtttgaca gtttatggag gcttttgaat cgtaatagca 660
atgtgagggt gaggtacacc tacagacatt aaataatttg ctgtgtcaaa aaaaaaaaaa 720
aaaaaagtcg agc                                     733

```

<210> 573

<211> 569

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<400> 573

```

gctgactaca gggccgcccg caataaaagc ccaggagccc atttggagggt cctgggcctg 60
gctccctcac tctcaggaaa tgctgacca tgggcaggag actgtggaga ctgctcctga 120
gccccagct tccagcagga gggacagtct caccatttcc ccagggcacg tgggtgagtg 180
gggggaacgc ccacttccct gggtagact gccagctctt cctagctgga gaggagccct 240
gcctctccgc cctgagccc actgtgctg gcgntccccg cctccaaccc ctgcccagt 300
cccagcagcc agccaaacac acagaagggg actgccacct ccccttgcca gctgctgagc 360
cgcagagaag tgacggttcc tacacaggac aggggttccct tctgggcatt acrtcgcata 420
gaaatcaata atttgtggtg atttggatct gtgttttaac gagtttcacr gtgtgatttt 480
gattattaat tgtgcaagct tttcctaata aacgtggaga atcacaaaaa aaaaaaaaaa 540
aaaaaaaaaa aaaaaagtcg tatcgatgt                                     569

```

<210> 574

<211> 1718

<212> DNA

<213> Homo sapiens

<400> 574

```

agtaccatcc tcgaggactg tccacgagggt cctgaggaat caggagctga actccacaga 60
gtcagttatg attaatggaa aatattgctg tccaaagata tacttcaacc accgttgctt 120
ctcagggccca tatcttaaca aaggaagaat tgctgagctg cctcaatgtg taggacctgg 180
gaactgtggt ctggtcctta gagagcctac aaaccacagc gtgtccttcg ggagctccag 240
ctggacaaag actctgtgtg gcacggatgt ggggaagtcc taaaagccaa atataaagga 300
aagagttatc gggctactgt tgagatagtg aaaacagcag atcgggtgac tgaattctgc 360
cggcaaacct gtatcaaact ggaatgctgt cctaacctct tcgggtccag gatggttctg 420
gataagtgtt ctgagaactg ttctgtactt acaaagacca aatacacaca ctattacgga 480
aagaagaaaa ataaaagaat tgggaggcca cctggtgggc atagtaactt agcttggtgc 540
ctgaaaaaag ccagtaagag gagaaagagg cggaaaaaat tttttgttca taagaagaaa 600
cgctcctctg catctgttga taatacccca gcgggctctc cccagggaag tgggggtgaa 660

```

403

```

gatgaggatg acccagatga aggggatgat gattccctaa gtgaaggcag tacatccgag 720
cagcaggatg agctacagga agaatcagaa atgtcagaaa aaaagtcag ctcctcttct 780
cccacccaaa gtgagatata cacatcgctg cctccagata gacaaaggag aaaaagggag 840
cttcgcacct ttctattttc tgacgatgaa aataaacctc cttcaccaa ggaaataagg 900
atcgaagttg ctgaaaggct tcacctggac agtaaccctc tgaagtggag tgtggcagac 960
gttgtgcggt tcatcagatc cactgactgt gctccattag caagaatatt cctagaccag 1020
gaaattgatg ggcaggccct gttgctcctt acccttccca ctgttcaaga atgcatggac 1080
ttaaaattgg gccctgccat caaaccttgc catcacatag agaggatcaa gtttgctttt 1140
tatgagcagt ttgccaaactg agaaggacaa ccaaagttag ctggatcttt gaagcacaaa 1200
tgcagcaaat ccttcacctt gctttataag tggagctgga atagtcttgg ggctctgggg 1260
cctgcaggta tcagcttgct ctctttgcac tttcggggaa ggaggactca cagtggaggaa 1320
gcaaaaactg tgcacagaag tggatcacct gctggtggaa atgtggacat ctcttgttca 1380
gcagatggca gtttttaaaa aataaagggt gtgaggaaaa gacttatata agaagaaaag 1440
catttccagt ggtgtggcct gaaaacaaag aataacctag gctgctggaa agcacccttt 1500
tggttgtttt cattctgttc cctcccattg tagattgaac tttgttctct gctttctttt 1560
tcttggaag agaggactta gctttaagtc agcactgatt tgggactgtt cctaaggcat 1620
atcagtgtct cattgtcatt gtgtttttaa acttttttaa attaaaacag ttcatttttg 1680
ggatgaaaaa aaaaaaaaaa aaaawraaag tcgacgcg 1718

```

<210> 575

<211> 1544

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1538)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1539)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1544)

<223> n equals a,t,g, or c

<400> 575

```

agtgggatcc aaagaattcg gcacgagggg attaggtaaa agtcttgcag tgaaaaaccc 60
gaggaccctt accgcaagtg tcttttgctc ccagctactg atactggatt ccaactcgtga 120
ttctcccttt cttagcgcac tcatgatata gacatcagtc tctgagctgg aggaggacaa 180
aggcagcggg cctgtgaatt ctatgctcta gcttgggtta agggatttgg aattgcactt 240
gtttcagaga gctccctctt tgcccaactag cagggcatta gctggtgctg aagacagtgg 300
ctgcttggcg agcctggatc tccaagtgac cccctcagca actcctgatg aacaggactg 360
aagccaatat taaagcaagt caaccaaagg ttctctggtg tagacaagac agcaaaagga 420
cagactacct tgtggaacct agcattgttc tccttctgca gcactaagta ctgtgtgcag 480
aaatgtgatt gagattcaag tcagggcctc tctgcccttt tccctccaga aacaaaacca 540
agataattta tcctgaacac ggtgaaaaaa ggaagggagg gaggagaaaa agtccgggtc 600
tcacctggga ttctctgtct cctgcaacat gaaggattta gcctgggagg aggtggtgag 660

```

404

```

aactctggga gagaaaaaag aaggaaagaa tagttttacc catgctgaag ttaattttaa 720
ccttcaccta gagaagcaaa aaaaaaaaaac ccacactttc ccattttgtg cctcccttcc 780
tagagtttta gccaaagggt tagctaagta attggtttta ccagcgcact cactcctcct 840
atcccaagtc tgtttgactc cctccccatc atcctcctca cctcttttca ggcagggtgg 900
ggatagcagc aggaggagat tttgggagcc tggcaactcc tgcaaggacc gcaggacagc 960
ccctctgtgg ggatgcgtgg tgccccatct gccgcccttc tgaagaatgc actgccttca 1020
ctttttactg tgtttagagtc catccagact gttctatcca aaaaagtttc tttttcccc 1080
acaggcaatc aggaaatgat tcctttcccg actgcttctg tctagtgcct gggaatcttg 1140
agtcaatccc tcagtaagtc agtgactagg gaaatccctc tctgagcctc ccagttcatg 1200
ttgcttaggg aacctgatat tttcgtgaaa cctgcctaca catgggcagc ccaacagcag 1260
aacaatggt ggtgaccaa gtgaacaaag aagtatagtt gtgccagctt cgtagtgtgc 1320
catgtggaca agtcagcagg atcaggacac gaggaagagt aaatgtgaga cagtcaatgt 1380
gacttctgcg ataaacagat ttttaaacc cgaatttttg caaaattttg gtgaaacctg 1440
aactttcttc gttgcatata ctggcactat ctgtaccatc atacaactgt ctcacattaa 1500
agctattttt cttgggcaaa aaaaaaaaaa aaaaatgnna aan 1544

```

<210> 576

<211> 660

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (74)

<223> n equals a,t,g, or c

<400> 576

```

catcagttct atttaatact tatggcaatt aagagattta gaaagcagag gaaaagacca 60
aaaaaaaaag atgngttaca aagtgtcatc atgctttag tagccccagca ttcttgaaac 120
taacgcacct ttaaaaagta atattttacac tgctgtaaat atttgcaaag tatcaatgtt 180
taattcactt agaattttta ggattatgga ttactagcg aaaattcccc taaagcaact 240
ttcccatatc agtaactttt atttagggaa acaagtttaa tgtacataat acatgtgacc 300
ttggaattca atagaatttt cgaaactaga agtaactcag aacrttcact agatggtttt 360
aaagtctttt ttgatactgt ccytaacatt tgcytatttg cmaattaata tgtaagaatg 420
rgtcyaaaag taagtttttag gaatggttat tcgacaaaga tgttattcct attaccaata 480
ctgcgaaatg ataattacag aaacaatgtg ggatccgttt tataacttca aattttaagt 540
cctttgtact ttggagcaga aaatgtaaga aatcgaaatc aagagttagt attttttata 600
tttcaggctg gctttaactg ttcatacacc tagcaaaata aacattttgt aaaggcggtta 660

```

<210> 577

<211> 574

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

405

<222> (332)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (532)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (550)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (565)
 <223> n equals a,t,g, or c

<400> 577
 aaatttactc cccagtacaa aggtgtctnt tgatcacagt aacccatagt cccccactgg 60
 ggggacggtg ggggaagact ttgggaggat tttacccaga atacttgccg cctgcttttt 120
 gtcctccagg aaaccagaag cccgggtaat taggacaaag ccaaaggccc cttgttagct 180
 ggccatccct gccccathtt tccccctggc cttttccct gtggccacag ggaagtgtgg 240
 cctgaatacc ccaccccggc tcctctgcac ccagagctgg gggccacctc agaagtgtca 300
 tctctctctg agcacgcatt cccctgcagc antcgaggaa tgagcagatt gagtgatgct 360
 ggggcagaga ggccctgggag gaaagggtgt cagccagtcg tttgtaaggc gctcgtcggc 420
 acctgctgaa acgccccac ctgacagccc cctcctcaaa gactgtctta attactcatg 480
 gcaaggttct agagacttaa ggggaaaagc tgctttaagg ccaccacatg tntgtgctcc 540
 ccaaccagtn tatctggctt ggggntcatt ttgg 574

<210> 578
 <211> 939
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (85)
 <223> n equals a,t,g, or c

<400> 578
 aattcggcac gagccaaagt gcagggatta caggtgtgag tgagccaccg cggccggcct 60
 ctatcathtt ctgactcagc agctncacca aaattgacat cctagcaaac actgtgaagg 120
 aattaacctt agtgcttcca gagcatctca tgtaacctct atggagtaag tcactttttc 180
 tgtaacatgt ggctttttgac cttgatgaag actttgactt ctcacccctg tctacatgga 240
 ggaagatgat tcagtgggtg ggaataatgaa cctcggtaac atttccaatg tccttcaaga 300
 gggaaacaag ttcagtgtta tcatcgtggc attcgttagt tttttttttt taaatcactt 360
 gtttagatac aactttathtt ttttatacct acatagcaca tgactggggg gataaagcat 420
 gtataagttg ggagagggta aagaatgtgt gactatgtat acagaaaata gactaaaatg 480
 tgcagcaaaa tgatatatac tgtaatctgg tttttgaagt atctactatt ctggaatatt 540
 gttaaacaac tttttgcttt tgaaaaaaaa aggtgccttg attcagttgc gtgacttaga 600

406

```

acattcatcc tattttattg tgatttttaa tgtcttctga ccccaaactg tgtttttggt 660
tgcagtctgg cggctgcagg catagcgctg gttttgttcc aataacagag accaaagagt 720
taatcagata tggttcagct gctacaattg tatgattcaa aggcaattta atcaccccaa 780
atttccatgg cccccacagt caagacctgc cattcgtttt ctcttgcagg ttggagtaaa 840
tttgcacttt gaatcatgtg ggtcatttgg ggaccttgtt cttttctatt ttgctttatt 900
aataaaggaa cttgtagaaa aaaaaaaaaa aaaaacact 939

```

```

<210> 579
<211> 778
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (35)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (59)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (778)
<223> n equals a,t,g, or c

```

```

<400> 579
caccagcccc ggagatacca tccaccagaa cctgngccat ggcctattag tcctaaagnc 60
agttgtcaaa gcagggctgt acgtcgggat tcgggaaatt caccagcgtc cgcaacctca 120
gtccctcaag gccatacctg gacccaacgg tgaagaaaga cgatgaggag gaggaccgc 180
tggaccagct gatctcccg cctggctgtg ctgcctccca ctttgcagtg caggagtgc 240
tggcccagca ccaggactgg cggcaatgcc agccacaggt gcaggcggtc aaggattgca 300
tgagtgaaca gcaggcgagg cggcaagagg agctgcagag gaggcaagaa caagccggtg 360
cccaccactg agaccccaaa ccacctatcc ccagtagatg gccctgcca gaccagcacc 420
cagcaagatt atagaggaag aaatcctaaa tgctggtgtg ggaggtctaa aacatgggga 480
gagtttttgg atctggagtt gagagccatg ggtttggaca tgactggcac aaacagctgt 540
catatgttca tggtcagatg tcatacatte tcagctgtct tgttccacca gtatttacca 600
ggaaaacaaa gaatgtgtta agggatgctc cccacccca catcttaagt cagtgtgcca 660
agtactgaga tgatttttagg gacattttat tttaaattaa atttacaatc taatggtaaa 720
ttgaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gggggggg 778

```

```

<210> 580
<211> 626
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (432)
<223> n equals a,t,g, or c

```

407

<220>
 <221> misc feature
 <222> (434)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (470)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (537)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (617)
 <223> n equals a,t,g, or c

<400> 580
 ggcgttcaca gcttctctct cgtctgggat ggtgccc aaa ttgccagctg gcaaaatgaa 60
 taaccgtgat ctcaaaccct agcctgatat agtcttgctt ccgttgccca ctgcctatga 120
 gctagacagc accaaactga agagcccact aattacttcc cccatgttcc gtaatgtgcc 180
 cacagcaaac cccacggagc cgggaatcag acgggtyccg ggggcctcar aggtgatccg 240
 ggagtcgagc agcacaacag ggatgggtcgt cggmattgtg gctgctgccg cctcttgcct 300
 cttgatcctc ctgtacgcca tgtacaagta caggaacagg gacgaggggt cctatcaagt 360
 ggacgagacg cggaactaca tcagcaactc cgcccagagc aacggcacgc tcatgaaggg 420
 agaaagcagc anantctgaa gagccggcca caagaaacca gaaaaaacn tgggacaggg 480
 gaagtattta acgtggtaaa accattggcg aaaccaactt ggggttcaaca accgccnaag 540
 ttttttttca ccaagggtta atttttcctt aattcccaac gggcccttta tttgaaaaat 600
 ccttttttgg ggaaccnggt tggaaa 626

<210> 581
 <211> 645
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (595)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (604)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

408

<222> (608)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (621)

<223> n equals a,t,g, or c

<400> 581

```

gcttggatta tatctaaatg gattatattgt taaaagtact gaaatgagta taaggcagta 60
tcacccatcc aaaagaaagg tctttataga cctgcacagt cactagatta attcattaaa 120
atgccccac cctgatgtaa ttgacattac atttcttaac attttaaaat ctagaatttc 180
taaaatggaa tttaatgcca tcacaatttg aaaaactttt tttttttttt tactatagaa 240
gttacaaagg aagttctaaa attatgcctc cctctgtttt tataagttgc catcgaaaag 300
tgattttaa atagcagggtta tctttataga ttttaaagaa aactagaaaag ttytaatgtt 360
ttaacttggg gaaaaatata tctctttaat gtttagcatg cttgtcaacc ttgagtgagt 420
gtcattttta agaacagttg tagcccttct gattattgca gtagctgtag aagtatgtaa 480
gaatatgtga tgggtgtagt cattagcaaa gcattttaa cacttgagta ttttgtcatg 540
gktcattatt attaaagcac aaaataacct attgtagtaa aatatgtgtt ttatnaatga 600
atgnaaanta attaaaaaaa naaaaaaagg ggcggccggt ctaga 645

```

<210> 582

<211> 369

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (339)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<400> 582

```

gggagggtat ggggcacact tccccaaggg cggacccagc aggaggaagc ccaggagctg 60
ggtcctgccc cccaggagct gggccctgcc acccaggccg ggctagggac atggcagggc 120
ctgggcatcc tggcgctgga cttgggcgac ctgggaggca caggaggggg agagatgggc 180
ggccccgccc cagcgcatg cgggccacac ccatgcaccg aagctcctcc ctgccacacc 240
ccaaggcggg tgccggagct taagccccgc cccagcagc gagaacatcc cccccccac 300
ccccctgcag ccagtgtcc ttgtcaagct cccccgtna ctccagtggg anccaccccc 360
gngagggggg 369

```

<210> 583

409

<211> 1269

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (719)

<223> n equals a,t,g, or c

<400> 583

```

gcggaacgcgt gggcgggcggc gtycaggggtc ggcagcaacc gcagscgagc ccgagcgggt 60
ggcgggcgcca tggcgtgcgc ggggctgctc accgtgtgcc tgctccggcc gcccgcgccc 120
cagccccagc cccagacccc gcggcacccc cagctcgccg ccgacccggg gcccgcggga 180
cacacgctct tccaggacgt tttccgcaga gcagacaaga atgatgatgg gaagctctca 240
tttgaggaat tccagaatta ctttgccgat ggggttctca gcctggggga gctgcaggaa 300
ctgttcagcg gcattgatgg gcatctcacc gacaatttag aaacagaaaa actgtgtgac 360
tacttctcag agcacctggg tgtctaccgg ccggtgctgg ctgcattgga atcgctgaac 420
cgtgcagtgc tcgctgccat ggatgccacc aagctggagt acgagagggc ctccaaagtg 480
gaccagtttg tgacrcgctt cctgctgcgg gagacggtga gccagctgca agcccttcag 540
agctcgctgg agggggcgctc agataccctg gagggccagg cccatggctg gcggtcagat 600
gcagagagcg tggaggcgca gagcaggctc tgcggcagcc ggcgggcagg acgccgagcc 660
ctgaggagtg tcagccgggtc atccacctgg tcccccggt cttctgacac agggcgcant 720
cagaggccga gatgcagtgg cggtccagg tgaaccgct ccaggagctc atcgaccagc 780
tcgagtgcaa ggccccccgg ctggaacccc tgcgtgaaga ggacctggcc aaggggcctg 840
acttgacat cctcatggcc cagaggcagg tccaggtggc agagggaagg ctgcaggact 900
tccaccgagc cctgcgctgc tatgtggact tcacaggggc ccagagccat tgtctgcatg 960
tgtccgcca gaagatgctg gacggtgcct ctttcacct gtatgagttc tggcaggatg 1020
aggcctcctg gagaaggcac cagcagtcgc ctggcagcaa ggccctccag cgcctcctca 1080
tcgaccactg cgggccccgg acaccctcac cactgtgttc tccccagcct cctggtggat 1140
aatgaataac aactgagcca gacctgcaca cgccgagggc cccgggaccc tgctgcctc 1200
tgaaccccag gtgggacccc agcacagagg caataaaggc agtgggtccct tccaaaaaaa 1260
aaaaaaaaa 1269

```

<210> 584

<211> 1943

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1177)

<223> n equals a,t,g, or c

<400> 584

```

gctgatccag aacgtcacc cagaatgacac aggattctac accctacacg tcataaagtc 60
agatcttgtg aatgaagaag caactggcca gttccgggta taccgggagc tgcccaagcc 120
ctccatctcc agcaacaact ccaaaccggt ggaggacaag gatgctgtgg ctttcacctg 180
tgaacctgag actcaggacg caacctacct gtgggtgggt aacaatcaga gcctccccgt 240
cagtcccagg ctgcagctgt ccaatggcaa caggaccctc actctattca atgtcacaag 300
aatgacaca gcaagctaca aatgtgaaac ccagaaccca gtgagtgcca ggcgcagtga 360
ttcagtcatc ctgaatgtcc tctatggccc ggatgcccc accatttccc ctctaaacac 420

```

410

```

atcttacaga tcaggggaaa atctgaacct ctctgcccac gcagcctcta acccacctgc 480
acagtactct tggtttgtca atgggacttt ccagcaatcc acccaagagc tctttatccc 540
caacatcact gtgaataata gtggatccta tacgtgccaa gcccataact cagacactgg 600
cctcaatagg accacagtca cgacgatcac agtctatgca gagccacca aacccttcat 660
caccagcaac aactccaacc cegtggagga tgaggatgct gtagccttaa cctgtgaacc 720
tgagattcag aacacaacct acctgtggtg ggtaaataat cagagcctcc cggtcagtcc 780
caggctgcag ctgtccaatg acaacaggac ctcactcta ctcagtgtca caaggaatga 840
tgtaggaccc tatgagtgtg gaatccagaa cgaattaagt gttgaccaca gcgacccagt 900
cactctgaat gtctcttatg gccagacga cccaccatt tccccctcat acacctatta 960
ccgtccaggg gtgaacctca gcctctcttg ccatgcagcc tctaaccacac ctgcacagta 1020
ttcttggctg attgatggga acatccagca acacacacaa gagctcttta tctccaacat 1080
cactgagaag aacagcggac tctataacct ccaggccaat aactcagcca gtggccacag 1140
caggactaca gtcaagacaa tcacagtctc tgccganstg cccaagccct ccatctccag 1200
caacaactcc aaacccgtgg aggacaagga tgctgtggcc ttcacctgtg aacctgaggc 1260
tcagaacaca acctacctgt ggtgggtaaa tggtcagagc ctcccagtcg gtcccaggct 1320
gcagctgtcc aatggcaaca ggaccctcac tctattcaat gtcacaagaa atgacgcaag 1380
agcctatgta tgtggaatcc agaactcagt gagtgcacaa cgcagtgacc cagtcacct 1440
ggatgtctct tatgggccgg acacccccat catttcccc ccagactcgt cttacctttc 1500
gggagcgaac ctcaacctct cctgccactc ggctctaac ccatccccgc agtattcttg 1560
gcgtatcaat gggataccgc agcaacacac acaagttctc tttatcgcca aaatcacgcc 1620
aaataataac gggacctatg cctgttttgt ctctaacttg gctactggcc gcaataattc 1680
catagtcaag agcatcacag tctctgcac trgaacttct cctgggtctc cagctggggc 1740
cactgtcggc atcatgattg gagtgtctgt tggggttgct ctgatatagc agccctgggtg 1800
tagtttcttc atttcaggaa gactgacagt tgttttgctt cttccttaaa gcatttgcaa 1860
cagctacagt ctaaaattgc ttctttacca aggatattta cagaaaagac tctgaccaga 1920
gatcgagacc atcctagcca aca                                     1943

```

<210> 585

<211> 577

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (78)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (80)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (81)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (82)

<223> n equals a,t,g, or c

411

<400> 585

```

caccggtccg gaattcccgg gtcgacccac gcgtccgggc tctgaaggag gttttcaagg 60
agtatttgat tgaactgn gnngttgcaac actttcaagg gaacatgatg gatttcttag 120
ctttcaagga gagactgtat ggaccattac aagcatatct taggcagaat gatttggaca 180
ttgaagaaga ggaagaggag cactttgaag tcattaatga tgaggtaaag gttgtggcca 240
gaaagcacgg gcagcctggg actcctgttg ccatagcaac ccasstaccg ccgaggactt 300
ctgcggcctt tccagcccag cagcagccgc tccagggtact ttctgatggc tccacagtgc 360
agctccccag actttcctca ctccgatttg aggactcgat gtgctgaggc akgacccaga 420
gggggtcccaa gagcctgtcc tcttttggtc aaaatacatc ttgaaacgtc tttgtgaagg 480
ctcttagttt taatgcatgg atgctgttat ttttcctac tgttactgaa attaaaaagt 540
gtttgtctct gaaaaaaaaa aaaaaaaaaa aaaaaaa 577

```

<210> 586

<211> 1240

<212> DNA

<213> Homo sapiens

<400> 586

```

gctcgtgccg cggccccgcc cgcgtcagct ctgcgcggtg attcactccc tccttcgccc 60
cggggccccc ttcccggcca gacggcgggc aagacagctg ggtgtacagc gtccctcgaaa 120
ccacgagcaa gtgagcagat cctccgaggc accagggaact ccagcccatg ccatggcgga 180
ttctgagcgc ctctcggtct ctggctgctg ggccgcctgc accaacttct cgcgcactcg 240
aaagggaatc ctctgttttg ctgagattat attatgcctg gtgatectga tctgtttcag 300
tgccctccaca ccaggctact cctccctgtc ggtgattgag atgatccttg ctgctatttt 360
ctttgtttgtc tacatgtgtg acctgcacac caagatacca ttcatacaact ggccctggag 420
tgattttcttc cgaaccctca tagcggcaat cctctacctg atcacctcca ttgttgtcct 480
tgttgagaga ggaaaccact ccaaaatcgt cgcaggggta ctgggcctaa tcgctacgtg 540
cctcttttggc tatgatgcct atgtcacctt ccccgttcgg cagccaagac atacagcagc 600
ccccactgac cccgcagatg gcccggtgta gggaacttc cctcatttct ctctgcaatc 660
tgcaataaac tcctccattg aaataactcc tccccacccc aacaacaaca ttcccagcag 720
accaactccc accccctctt tgaggtaaaa gtgcctttat tgggagactt ttgtcttcca 780
gcctgccaat caaccctcct ggggtgtggc accatatgtg tgtgcctagg tcctccttct 840
gcacgatcca ataggagaca ccagttctga ctgaaccatg cccccacctc agtcacaaaa 900
tgagggaagt ggggagttag atttcagagt ccaggcccta ggttgggacc cactccaaat 960
aatctcctcg gtgtgggtgg tggttctata gagggataaa tgaataataa acattgttaa 1020
aatatacgat aatgaataaa gtaatccttt catcaaatgt gggtaaatct caagcatcag 1080
gagggggaaa tggagtggaa acagctgggg caaggaggca aagaagccag gcctgtttta 1140
caacaaatat taaattactt caataataca aacgagaggc ccggtgcggt ggctcatgcc 1200
tgtaattccc agtccttttg gaggtgcggt gaggtattgt 1240

```

<210> 587

<211> 875

<212> DNA

<213> Homo sapiens

<400> 587

```

ggaarggttg taggacttaa tcacgtttca gcttggctgt cgggctgtga gtcacgggtg 60
cactgcgatt atgtaagcac gcaggaatag gtggcatgac atatatgctg ccagcagcca 120
cgggcctcgc ccttccgagt caccactact ttttaagcct ttttttggat acaagtttct 180
ttgggttcat ctttgraatg raaatgraag catgattgca gaataggcag amcaggaatt 240

```

412

```

atccatcaat cagagagamc ccagaccttt aagagaagct ggaattagaa tatggaattc 300
ctgagccttg agctggcata gccgagccct ggtttatgct ctctctgcct cctccttttt 360
ttccctcctg cctgtgtgct ccacttcctc tcttgagact cccccaaggt agcatcactc 420
ccaccaggag ccttaggcag gaaaagtaag gccagagaa gggactgtcc ctggggacgt 480
gcaatgcctc ccacagtatt tctgtagggg aaaggataga aactcacttc ttgggttcct 540
ccaatcacca tgcacatgtc agtccttcag ctatcaatgc aaaggaaacc cagaactgag 600
atctgagctt tctcaccatc tccatggtca gatatctcca ctgccaagg gttcattccg 720
cctctgggtt tatctctttc ttcattgttc tctctggcag tgtctgtttg aagcttacct 780
tcccatctgt gtttgcattc actccctaaa aactacaaga caaaaaaaaa aaaaaaaaaa 840
tcgagggggg gcccggtacc caattcgggc tatag 875

```

<210> 588

<211> 1517

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (144)

<223> n equals a,t,g, or c

<400> 588

```

gttgagtctt tgggtgtgct tttaatgggc tctctgcctc ttccttaggt gtcaggctgc 60
tctacctgtt tctagacgct ctctctttcc cctctccaaa cctcttttct tcttgctgc 120
tttcctatct tctgtggcta gganatcagg taatcaagcc tgtgttttct gtaatgagta 180
agtgggttgc cagcgaggctc tctgtggatg ctctgtgag tcaagtgcac gagctttagt 240
gcatggactt tgggtgtctt gttcccacag cttatatgtt ttgggggctg ctttcttgct 300
ctttacccac attctgtgtc atgagtgtgc cgggtaggtg gcctcctgcc cgatggaggc 360
tgagcatctt ggcagtgtcc atcatgcctt gcgtgtgcct ggctcttttg ctgcagatac 420
tatggaccgg cagctcatcc cctgtctacc acctggcctc tctttttctc tgtgtgcaga 480
tctggcagtg tgggtgggtt ctggaaacac acctatgttc ccatgttggc catgttttcc 540
ccaagcaagc tccctactcc cgcaacaagg ctctggccaa cagtgttcgt gcagctgaag 600
tatggatgga tgaatttaaa gagctctact accatcgcaa cccccgtgcc cgcttggaac 660
cttttgggga tgtgacagag aggaagcagc tccgggacaa gctccagtgt aaagacttca 720
agtggttctt ggagactgtg tatccagaac tgcattgtgc tgaggacagg cctggcttct 780
tcgggatgct ccagaacaaa ggactaacag actactgctt tgactataac cctcccgatg 840
aaaaccagat tgtgggacac caggtcattc tgtacctctg tcatgggatg ggccagaatc 900
agtttttcga gtacacgtcc cagaaagaaa tacgtataaa caccaccag cctgagggct 960
gcattgctgt ggaagcagga atggataccc ttatcatgca tctctgcgaa gaaactgccc 1020
cagagaatca gaagttcatc ttgcaggagg atggatcttt atttcacgaa cagtccaaga 1080
aatgtgtcca ggctgcgagg aaggagtcga gtgacagttt cgttccactc ttacgagact 1140
gcaccaactc ggatcatcag aaatggttct tcaaaagacg catgttatga agcctcgtgt 1200
atcaaggagc ccatcgaaag agactgtgga gccaggactc tgcccaacaa agacttagct 1260
aagcagtgc cagaacccac caaaaactag gctgcattgc tttgaagagg caatcatttt 1320
gccatttgtg aaagtgtgtg tggatttagt aaaaatgtga ataagctttg tacttatttt 1380
gagaactttt taaatgttcc aaaataccct attttcaaa ggtaatcgta agatgttaac 1440
ccttggtatt tagaaaaatta aaaccttata atatttttct awmaaaaaaaaa aaaaaaaaaa 1500
aagggcggcc gctctag 1517

```

<210> 589

413

<211> 871
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (12)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (863)
 <223> n equals a,t,g, or c

<400> 589
 gggagcggag gncaggaacc caataagctg ctctgcctcg gagctgaagc ccgtactcaa 60
 gatggcggct ccgggcgggc gtggccagtg actagaaggc gaggcgccgc gggaccatgg 120
 cggcggcggc ggacgagcgg agtccagagg acggagaaga cgaggaagag gaggagcagt 180
 tggttctggt ggaattatca ggaattattg attcaractt cctctcaaaa tgtgaaaata 240
 aatgcaaggt tttgggcatt gacactgaga ggcccattct gcaagtggac agctgtgtct 300
 ttgctgggga gtatgaagac actctaggga cctgtgttat atttgaagaa aatggtgaac 360
 atgctgatac agaaggcaat aataaaacag tgctaaaata taaatgccat acaatgaaga 420
 agctcagcat gacaagaact ctctgacag agaagaagga aggagaagaa aacatagggtg 480
 ggggtggaatg gctgcaaata aaggataatg atttctccta tcgacccaac atgatttgta 540
 actttctaca tgaaaatgaa gacgaagaag tggtagcttc agcccagat aaatctttgg 600
 aattggaaga ggaagagatt caaatgaacg acagttcaaa cctgagttgt gaacaggaga 660
 aaccaatgca cttggaaata gaagattctg gtccctcttat tgatatacct tctgagacag 720
 aaggttctgt ttttatggaa actcaaatgc tgcccttagaa atcactccta gatgaaatgt 780
 ttctcataat aacttgtcaa gaacttttta gagttgttac ataaaaataa ttgctgtgta 840
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa t 871

<210> 590
 <211> 1566
 <212> DNA
 <213> Homo sapiens

<400> 590
 ctttcatact acccttttagt cataaggaga aaaaaacact caaatagtag aagcagcaag 60
 tagcaaaactt caggagagct actttctatc caaataattt aaaaaacact ttccacctac 120
 tcctttcatg gttataaacac attggcagac tttttgctgg ctctgggagc catgatttta 180
 atcacattct gcaaggtgac aaatgtcata cattccacat tgtgtggtag ccatctcttt 240
 agactcatgt gttttgggga aaggaagaag ttcttggtcg agtactattt tgaactttcc 300
 agaaccctct cacaccagag acagttcttc tctgttcagt ttccaatccc cgataatttg 360
 ctaaaaataac attgtacatc caagagaggg aagaagagta tgtcagtata ttatgcagaa 420
 gatagataca gcctttttcag aagatctcca ctagtttttg ttccaaaaat tcaagtttat 480
 gggagaaaatc tcaattagcc accttttcac agttgtgtgg atataacatt tgggggatct 540
 ttctggactc ctacctatct gtgcatttta ccggcacctc aggaaaggag ggtgaccagg 600
 ttgtcttagc ttgtactgct tgggtgatctc tgaggacctt ctaattcagt tgtacccag 660
 tgttccatgt atagaaaaac ttcattagaa caaactttac ttgatatgaa actcctatta 720
 acagtctttt tttgaaataa aaagtagctt gagctttctt ttaaaatcat gtatcttgat 780
 tgttgattta atgaaggatt tccttttaat gctgcttttg agcttcaagg taataggaca 840

414

```

gcaggaacct aaaatatctg ccatcatctg ccataggaaa gataccaga gacccatcat 900
gttctctttt tgttggttaca ctggtgggtg ggtataacaa ttggaaaatg aacaaactga 960
ttgattgtgc aaactacttt ttatgacaag cctaaaccct cataatgcgg cagcttaaag 1020
tgtatacata tgcactaact ttgatcaatt atattctcat atctgttagc tacacagtct 1080
cctattatct caattgctta tgtgcatatg gaatatgtta cttaaaacgt gtgcattctt 1140
actgaaaatg ttttcaaagg aaggatcag ctgtgggcta attgccacca atttcagcct 1200
gccacgattc ttggaaatat gtcttccaag tgccatccat catcagtagg acaagtgtcg 1260
ggagtttgtt tatttttttc cagtagcaac gatgggttac atggagccat gaaacctcct 1320
tctggcctcc cttgtgatta atggcatgtg tttgtaaaat ggatagctgg ggttggcaga 1380
tggttagaga agaatcgctt ttggtttaaa atgtatgtgg tcccctaatt attgtgacct 1440
cattctgtaa tcaactgagc tagttccaat aaagttaagc aggttttaat ccactttgtg 1500
cctatctttt cactgacaat aaagttagct attttaaaat gcaaaaaaaaa aaaaaaaaaa 1560
aaaatt                                           1566

```

<210> 591

<211> 1192

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<400> 591

```

accttgagtg tccttggcaa cctagccttt gacattgatg tttttccata ggattttctt 60
catttgggtt ggaataaaaa tgcattttta ttcacaaggc acagacagat aagaatatca 120
taagcagggg agtgtctcca aaggtcagga cttatgtttt tctgttgagt gctatatgtg 180
gaggttattg caagttccct gatatgagta tggtttcgct tgctacattg tgccatttaa 240
agtaaaattt tacacaagcc tcgcatttct aagattagtg tccccgaatg aaatgttnaa 300
gaaaacatta aaagattatc tctttttaag atggaggaaa aaaagtgaac aaagctaatt 360
aatctataat gaaaattgca caaaataaca tttcttaaca aatttaatac aattttgtgt 420
tctttgttgc tagtgggtata aaacgagatt tttttccctc atttttctca ttgtagatgt 480
catctctcac atttatatca gtgaggtttg aaattctgtg tagcagttac tcagcacata 540
tgagaggggca gcgaatgaat gagatttgtc atgtgctaat aaaagctgaa tttttgtaat 600
ctaaaatgat gtatttttcta ctattgctgt taatttgcac tgttaaaaaat tcttaaagtt 660
taatattgta tgttcagtca ttgaaagcga ccactcattt ttttcttaaa gttgatgcct 720
tttctgctgt gctagagtca gtattttgct tctggcagga gagctgcaa ctgtgtatcc 780
tcaaacagat gcaaaaagta gtgcttttgc aaacgtttgt tttctgttta tctcagatta 840
acatccttta atacaagttt cttaagtgtg acttgtatct ctgaaaatgc ttaaaattat 900
tttatatttc cctttgggaa tttttctcta tttccagcac gctgatttga tttaaaaatg 960
taataagacc aagagttgga gtaaagggat attcattcca tgttaaaagt ggcttcatag 1020
ctactgacaa atgtctgaac tattgtcgtg cctttcaaaa ctggagtttt ctaaaataat 1080
cttattttta tacttgtatg ttccagcaat ttaagatata taccattgaa agggaaataa 1140
aacatttttg tttatttgaa taaataatac tccccaaaaa aaaaaaaaaa aa 1192

```

<210> 592

<211> 401

<212> DNA

<213> Homo sapiens

415

<220>
 <221> misc feature
 <222> (220)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (361)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (400)
 <223> n equals a,t,g, or c

<400> 592
 ttatttggaa gacattatTT gtggaacata atggcataac atttacatac gttcacctwc 60
 tgactttgag tatgaatgtg taggttgtgt atatgtgtga atatatatac accacgatgt 120
 cattctaagt gtttggaaat aactgttcat acatgtrgtt taccttcttc cttggaatta 180
 ctatcttgta atatggcatt aaagaattat cccatctctn aagtcctttg cctgggaaac 240
 atggtgaact ggaggatcct tacacattct gtgtgaccag ctattaaaca gaatgaggac 300
 taggtctctc tgtcactgac ttgggaaggt aatgaaatgt tcaggcaacc agtattgaca 360
 ncttgacagt tttgccccgg ttttgtttcc caggtgattn a 401

<210> 593
 <211> 654
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (58)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (71)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (545)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (564)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

416

<222> (592)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (593)

<223> n equals a,t,g, or c

<400> 593

```

gtccggccta ccttttataa cttgaatggt aaggaatgga ccatgggcta ctactggnc 60
ttagtgccat ntaaccagcg ataataaaat tctctattag tctgttaatt tatgaccatg 120
atctcggaat ggaaaaagat catttccaga gtgtgcgaaa taatagtctt taaccatgta 180
attaaatatg tgtgtttatt gtcaaataag gatttgtttt aaaggtgatt cttggggttg 240
aagacatttg ttaattcatg gtctgtacag aaatgaagct ggttgcaata ccaatctaga 300
gagtccaagc tggcgaaacta ttaagctggt taaagatcac ccttggcctg gcacagtgg 360
tcacacctgt aatcccagca ctttgggagg cctaggcagg cagactgagc tcaggagctt 420
gagaccagcc tgggcaacat ggcaaaaacc cacctctaca aaaagtacaa aaattagtcg 480
ggcgtgatgg caggcatctg tagtcccagc tacttgggaa gctgaagtgg gaggatcacc 540
tgganctctg gatgtggaag ctgncatgag ccatgatcgt gccactacac tnnagcctgg 600
gtgacagaat gagatcctgt ctcaaaaaaa aaaaaaaatc acccttaaat caac 654

```

<210> 594

<211> 682

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (673)

<223> n equals a,t,g, or c

<400> 594

```

tggaaggagc agcagttttg caaggtaagc agggcagaga cacagcccat ggcccctcat 60
tgccctgctg gtaagggctg atggarctcc ccgcagcgtg gttcctgcct ggktgacaga 120
ggctcctktg gccactttag aartgcggtt tactcctcat gccgagatgg accttgggca 180
gctcagttca caagatgttg gtcaggcgtc atttaaataat tttcagtcag cagaggaagc 240
aaagcgtgcc attgaggtcg tgctgtcagc ggatcctcgg tctgtgtacc gccggaagct 300
ttgccaggac cgccttttct actttactgt agacatagcg catgtcactt gctgggtttgg 360
tgatggcctt gcagaggtgc tgaggatcaa gccggcttct gagcctgttc atatgactgg 420
ccctgtgggg tccttgggtg ctctaggggc ttaaggagcc tccctcatgt ctttaaggta 480
gcatcattga tctttggatg tggcttttgg attttctgaa caagctaata ttgtgtcrag 540
aagcaacact ttgtgatctc atggccttga ttgatttggg ctgttcaaaa tgttttatttg 600
aaaaacgtat acattaataa acttaacaaa gagatataaa aaaaaaaraa aaaaacccga 660
ggggggggccc ggnacceaat tc 682

```

<210> 595

<211> 1430

<212> DNA

<213> Homo sapiens

<400> 595

417

```

cagtctcagt tggagggctg atartaaacc ttattgggtat ctgtgccttt agccatgccc 60
atagccatgc ccatggagct tctcaaggaa gctgycactc atctgacac agccattcac 120
aycatatgca tggacacagt gaccatgggc atggtcacag ccacggatct gcgggtggag 180
gcatgaatgc taacatgagg ggtgtatttc tacatgtttt ggcagataca cttggcagca 240
ttggtgtgat cgtatccaca gttcttatag agcagtttgg atggttcac gctgaccac 300
tctgttctct ttttattgct atattaatat ttctcagtgt tgttccactg attaaagatg 360
cctgccaggt tctactcctg agattgccac cagaatatga aaaagaacta catattgctt 420
tagaaaagat acagaaaatt gaaggattaa tatcataccg agaccctcat ttttggcgtc 480
attctgctag tattgtggca ggaacaattc atatacaggt gacatctgat gtgctagaac 540
aaagaatagt acagcaggtt acaggaatac ttaaagatgc tggagtaaac aatttaacaa 600
ttcaagtgga aaaggaggca tactttcaac atatgtctgg cctaagtact ggatttcatg 660
atgttctggc tatgacaaaa caaatggaat ccatgaaata ctgcaaagat ggtacttaca 720
tcatgtgaga taactcaaga attacccttg gagaataaac aatgaagatt aaatgactca 780
gtatttgtaa tattgccaga aggataaaaa ttacacatta actgtacaga aacagagttc 840
cctactactg gatcaaggaa tctttcttga aggaaattta aatacagaat gaaacattaa 900
tggtaaaagt ggagtaatta tttaaattat gtgtataaaa ggaatcaaat tttgagtaaa 960
catgatgtat tacatcatct tcaaaaatag atatgatgga ttctagtga gacccaaatt 1020
acttctgttt actttctatc aggaagcatc tccattgtaa atatgtattt acatgtttat 1080
tacaaagacc caaatgaaaa attttttagtc ctttttttgc atagcctaaa gataaaatag 1140
gaataaaaagt tctatattta tggattttct gtatataaaa ctggtttcta attataactt 1200
aagtccatta agtaaaatct gtattgccac tttaaatgta aactaaatta tttgggagaa 1260
acttcaacca ctgatatgag ataagcaatg agaataggga agtgtataac atcacagttt 1320
ttgatgtatt acaaaaatca accactctat aaaataaatt ttttttactt ttggtaatat 1380
ttgcaaatga ataattaatt tattagggta aagaacttat actaagttgt 1430

```

<210> 596

<211> 1597

<212> DNA

<213> Homo sapiens

<400> 596

```

gctagtccct cggcgagcga gcaccttcga cgcgggtccgg ggaccccctc gtcgctgtcc 60
tcccagcgcg gaccgcgctg ccccaggcct cgcgctgccc ggccggctcc tegtgtccca 120
ctcccggcgc acgccctccc gcgagtcccg ggccccctcc gcgccctct tctcggcgcg 180
cgcgcagcat ggcgcccccg caggctcctcg cgttcggggt tctgcttgcc gcggcgacgg 240
cgacttttgc cgcagctcag gaagaatgtg tctgtgaaaa ctacaagctg gccgtaaaact 300
gctttgtgaa taataatcgt caatgccagt gtacttcagt tgggtgcaca aatactgtca 360
tttgctcaaa gctggctgcc aaatgtttgg tgatgaaggc agaaatgaat ggctcaaaac 420
ttgggagaag agcaaaacct gaagggggccc tccagaacaa tgatgggctt tatgatcctg 480
actgcgatga gagcgggctc tttaaggcca agcagtgcac cggcacctcc aygtgctggg 540
gtgtgaacac tgctggggtc agaagaacag acaaggacac tgaaataacc tgctctgagc 600
gagtgaagac ctactggatc atcattgaac taaaacacaa agcaagagaa aaaccttatg 660
atagtaaaag tttgcggact gcacttcaga aggagatcac aacgcgttat caactggatc 720
caaaatttat cactgagtatt ttgtatgaga ataattgttat cactattgat ctggttcaaa 780
attcttctca aaaaactcag aatgatgtgg acatagctga tgtggcttat tattttgaaa 840
aagatgttaa aggtgaatcc ttgtttcatt ctaagaaaaat ggacctgaca gtaaatgggg 900
aacaactgga tctggatcct ggtcaaaact taatttatta tgttgatgaa aaagcacctg 960
aattctcaat gcagggtcta aaagctgggt ttattgctgt tattgtgggt gtggtgatag 1020
cagttgttgc tggaattggt gtgctgggta tttccagaaa gaagagaatg gcaaagtatg 1080
agaaggctga gataaaggag atgggtgaga tgcataggga actcaatgca taactatata 1140
atgtgaagat tatagaagaa gggaaatagc aaatggacac aaattacaaa tgtgtgtgcg 1200

```

418

```

tgggacgaag acatctttga aggtcatgag tttgttagtt taacatcata tatttgtaat 1260
agtgaacact gtactcaaaa tataagcagc ttgaaactgg ctttaccaat cttgaaattt 1320
gaccacaagt gtcttatata tgcagatcta atgtaaaatc cagaacttgg actccatcgt 1380
taaaattatt tatgtgtaac attcaaagt gtgcattaaa tatgcttcca cagtaaaatc 1440
tgaaaaactg atttgtgatt gaaagctgcc tttctattta cttgagtctt gtacatacat 1500
acttttttat gagctatgaa ataaaacatt ttaaactgaa aaaaaaaaaa aaaaaaaaaa 1560
agtcgacgcc aggaatttag tagtagtagt aggcggc 1597

```

```

<210> 597
<211> 602
<212> DNA
<213> Homo sapiens

```

```

<400> 597
ggcaggggtg gagccctcat ggagaacctc tgtaggggca gtgcagaaga gaaatgtgag 60
gtcagagcct tcacacacag tccccactga ggcaactgct agtggagctg tgagaagaga 120
gccactattc tccagatccc agaatggtag atcaaccaac agcttgcaact gtacatctgg 180
aaaagctgca gacactcaat gccagcctat gaaagcagct tggaatgggg ctgtaccctg 240
caaaggcaca ggggcagagc tgccaagacc atgagagtct acttcttcca ccagtgtgac 300
ctgaatgtga gacatagagt caaaggagat tattttggag ctgtaaaatt caatgaatac 360
cctgctggat tctggacttg tcattggctt ttagccccct tgttttgtcc aattctccta 420
tatggaatgg gagcatcctc atccaatgcc tgtaccctca ttgtgtctta gaagtaatta 480
acttgctttt gattttatag gccatgctaa tcagcattca gttctagatt ccaattttatt 540
ctcagtgtgc ctgtataact tttctttcta tatatatata attaaatttc tattacttat 600
tt 602

```

```

<210> 598
<211> 432
<212> DNA
<213> Homo sapiens

```

```

<400> 598
gctcgtgccg aattgggtgcg gcgtcaggtg cgcccgccag gtgagcgcgc tccctggcac 60
cgttggcccc cggagggtcg ggcccagttg cggcgagcgg attggtttat cttggaagct 120
aaagggcatt gtcatacctg aagatcagct gaccattgac aatcagccat gtcattccagg 180
cctcttgaaa gtccacctcc ttacaggcct gatgaattca aaccgaatca ttatgcacca 240
agcaatgaca tatatggtgg agagatgcat gttcgaccaa tgctctctca gccagcctac 300
tctttttacc cagaagatga aattcttcac ttctacaaat ggacctctcc tccaggagtg 360
attcggatcc tgtctatgct cattattgtg atgtgcattg ccattcttgc ctgtgtggcc 420
tcacgcttgc ct 432

```

```

<210> 599
<211> 1319
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (591)
<223> n equals a,t,g, or c

```

419

<400> 599

```

tgtgtgtttca caaccaaattg ttgatgccct tatctactga taatatcctc tcaatgttca 60
ctgaggcata gaaattatctt cagagtagaa attgcagcat gaggataaac tcacctcttt 120
gttctgaaaa tagaacttta tcactatgct ttccggtggt ttccctttt acaatcgaaa 180
tcttgtgect cccaagtgcg ttggaaaatg acaaaagcct gtctctccaa attcctatct 240
aacagtttga tttttttttt ttaatcacca tctttcaa attagctcaa ctctcaccaa 300
gtgaaaattg gctacttggg agaaagttaa ctttctatgg tgggatgggtg aaggatgagg 360
gacagtttac ataggaaaag aaaaaaaaaa gtctaaagtc catgttgaaa aaccacacta 420
ccacttatct tctgctaacc cttaaattatt ttgcggtata cgcttgagggt tatagtctgt 480
gcctagacct aaaatgcacc agcggggggg attttaaaaa atccttcaaa ataccagttt 540
tttcccaaca agtacaattg ttcttgtgcc ttctgtggct ttcgatttca nctttttkac 600
tttwtttcca attactacag ctgcaataaa cactagattt ttttctggc tgtttgacat 660
aacgttgata gctatgcata tkttgtgtct ttttaaaaca aagcgggaga atacgttttt 720
gaagaagaga atttttagaa cagtttgata ccgcaaatta ttttycctc aattgtttga 780
gcagcattcg agttttgaaa attctttagt agccaattt tttgtaactg tgggtgcaaat 840
cttgtgtttt cttagcctaa tgaaaagtag tatagaagca atatttcata ccatgtgcta 900
tatatgtgtg cgcagatgtg tgaacataaa atcacatata cacatatata cacatgtaaa 960
aatatacata tatatatatg cgtgtgaagt ggaaagctta ctttttcta tctagattta 1020
agaacctatt ttagacattt gttatgtttt gtgaaaagaa tgttctatct gcaacaaaac 1080
atttaattct tactgtatct ctggctgttt aatgaggacg tttcacatta aatggtaaaa 1140
cacatggaag atgttagaat gtagtaatta tttaagtaaa cgttcaccca catattcctg 1200
aagtttgctt tgtgcctcgg agtattatct aattaaagaa gtgttttatg tttgcagaat 1260
ctttgtcact gtactaggga tgtgggtgaa tatcatttaa aaaaatttaa aacaacaaa 1319

```

<210> 600

<211> 973

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (746)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (942)

<223> n equals a,t,g, or c

<400> 600

```

ctcacctccg agagctagac tttggccagg catggctaaa accactgggt aacgatgtga 60
cagttatgat cttggagatt ggaaatcttt cttccacatt agagtctttt accttaattc 120
cttattctga aaaattgtaa gattttatga aggtttgaat actgaagcac agttctgctt 180
tcaaaaatta aaattcaaac ttgaaaaagc tgtttaaccc atggaagata tcathtagta 240
agatgtaaaa gattttttta atctacactt cagtttatac atctttatca ttatcaatac 300
tatataagtt actgtgagca ttttagagaa ttccataaag gtactatgag tgtgtctgta 360
tgtgtgtgta tatatagcat tgtatttaat catagactaa atttaatttg atatagaaat 420
actactttac ttgtacatta aggtcataat ttctgctgga ctcttttata tttaattaat 480
ggggattata gtcttccttc ataaatgcat ttaaacctga aattgaacac cagtgttttt 540
ctttttctac ttatgggaag ttgtctgctt ccccttttag agaaaacagt atttttata 600
tttgttaaaa tattaactac tttatgccta cacactatgc tgtagatact gatcataatt 660

```

420

```

cttgggtggt cacaacact cctagwgcct cttttttggc ccgttgaaag tgttggtatt 720
actactttca ctacagagcc tttggnccct taataatgct gaggtgggct gatccttccc 780
mtttctgtcy tcgggtcatt ctgggtaggg tcttctcctc cactgtcaag gtaaggcaat 840
cagggtcctg gacaggggat tgggacatat ggaacaaatt aaggtgggat acacacagt 900
aggaaagggt acatggcatt ctatggggaa ccaactactg tncaataaca tctgatgtta 960
acatggcaca tta                                     973

```

```

<210> 601
<211> 1473
<212> DNA
<213> Homo sapiens

```

```

<400> 601
ttgagactga ctactgagtc taccttttta atcaagccta acatgaatgg gctccaaaaa 60
gtaatgaatg taattgtact ttttgatgtg cctctgcact tggcttggtg agtcatcata 120
aatagctggt aaatatgtga ctttacagat tttgatatgt tcagattgta aaaaatgaat 180
agtttatattc attaatgtat gggcagtcac gaatctccct cccttcagta gggctgacac 240
ttaggagttta ggtcatggtt gtggttactt ggcattggta atcagatttt gttctggtca 300
gaatttgccc aagatcaata cccagcagaa actggagtta ggctataaaa aaccattcat 360
gtttcccgagt gatcatttca gtcagcgatt catgttttac agtgtttagt tgttgattat 420
tagaaaaagt aatatatttct tccctttatg attacatcat tataaatcaa gtccttccat 480
gaacacattt aaggtgtgtg gagatgagat gtctgaatcc atttggggat gggctgcatt 540
tttggggaac tctatgcctg tccagtgaag agtgcctaaa acattaatta tagatcaaag 600
atgttctgtt gagggacaaa gcttgatggt catcaaacac aaggctttgt aaaaatacga 660
ccacctattc cacttactgg atctgtcagg tgtgtaaaac ttctctcgcc agttcatcat 720
gcttccatga gccctcagga ctgggatttg agccttccctg gctctttatc ccttggggca 780
gacatggaac catctctgag ggaccagggt gatgctgaag ctcacccagt cagggccctt 840
ctcctagctc cttttacact gaaattaatc tgaaagcttt catagccaag gctttgctag 900
gtgctattat tccagctggc caaagagaag tcttgggcca gattgggatt ctcaatggat 960
tttatagaca taattccctt gcaaacttaa aaaaataaat aaccctact ttataggact 1020
aattgtttga attgtatctt tctctgtatg ttaaacaga tttaaaacta ttttataacc 1080
acaatatgta atcagagcaa tatagtgttt tcagatatat accttgtttt ataccttatg 1140
taggtgtcct acataagggg ggcattgcca ctggctgtgg taaaatttaa tcttcattgc 1200
tttgggagtg acttaaggcc ttttgaagtg gagcttttgc actttatact ttttctgtga 1260
actatgataa ctatatattg tattaaagct gtaagtggca ttttcagcaa atgaatatgt 1320
acatgtttgt gtctatttcc aaaatgattt ctgaactatc tgcagtgaat atgtatctga 1380
tggattgtag agcaaaagcac attgcctaaa ttcatttgtt aatgaattgg gtaccattgt 1440
tattaaaaat gcgtaaagta aaaaaaaaaa aaa                                     1473

```

```

<210> 602
<211> 481
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (480)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature

```

421

<222> (481)

<223> n equals a,t,g, or c

<400> 602

```

gccttcacat tgggtcttccg gggcttataaa gcataatcatt cctgattctg cagctgggttc 60
tctctccaag cactagcaaa accctgccct aggagccccc agactctgag agcccatgac 120
caaaaagaaa aggaaagcca agttggggaa gaacaggggc cccaactcca cagccctcca 180
ctctssccag agggcccacc ctgggctgcc tgggaaccccc taaagttgcc acccccgcaa 240
cacagtagtg gggcagttcc tggcagcgcc tgcagcccat gggctggctc tgtacccgca 300
gccccgccaa gcgtctgtta tcttattttac tgggaatctgc acagccaggc tctagctcac 360
cgggtgactaa ggagctgcag ccattattac caggcagatg gcagactccc taaaagcaga 420
cattaaacaa taaaatgcc aacacatacct tgcccacaaa ataaaatcaa aacaaaccan 480
n 481

```

<210> 603

<211> 1667

<212> DNA

<213> Homo sapiens

<400> 603

```

gggaattatt tcacaatact gatagtactg ggaattgtka aataattcct ctgaaagata 60
agaatcactg gcttctatgc gcttcttttc tctcatcctc atgttctttt accccagttt 120
ccttacattt ttttaaattg tttcagagtt tgtttttttt ttagtttaga ttgtgaggca 180
attattaaat caaaattaat tcatccaata cccctttact agaagtttta ctagaaaatg 240
tattacattt tattttttct taatccagtt ctgcaaaaat gacctataaa tttattcatg 300
tacaattttg gttacttgaa ttgttaaaga aaacattggt tttgactatg ggagtcaact 360
caacatggca gaaccatttt tgagatgatg atacaacagg tagtgaaaca gcttaagaat 420
tccaaaaaaa aaaaaaaaaa aaaaaaaaaa gmaaaactggg tttgggcttt gctttaggta 480
tactgggatt agaattgagtt taacattagc taaaactgct ttgagttggt tggatgatta 540
agagattgcc attttttatct tgggaagaact agtggtaaaa catccaagag cactaggatt 600
gtgatacaga atttgtgagg tttgggtgat ccacgcccc ctccccact ttcccatgat 660
gaaatatcac taataaatcc tgtatattta gatattatgc tagccatgta atcagattta 720
tttaattggg tggggcaggt gtgtattttac tttagaaaaa atgaaaaaga caagatttat 780
gagaaatatt tgaaggcagt aactctggc caactgttac cagttgggtat ttctacaagt 840
tcagaatatt ttaaacctga tttactagac ctgggaattt tcaacatggc ctaattattt 900
actcaaagac atagatgtga aaatttttag caaccttcta aatctttttt accatggatg 960
aaactataac ttaaagaata atacttagaa ggggttaattg gaaatcagag tttgaaataa 1020
aacttggacc actttgtata cactcttctc acttgacatt ttagctatat aatatgtact 1080
ttgagtataa catcaagctt taacaaatat ttaaagacaa aaaaatcacg tcagtaaaat 1140
actaaaaggc tcatttttat atttgtttta gatgttttaa atagttgcaa tggattaaaa 1200
atgatgattt aaaatgttgc ttgtaataca gttttgcctg ctaaaattct cactttttgt 1260
aacctgtttt atttcttttg gtgtaaagcg tttttgctta gtattgtgat attgtatatg 1320
ttttgtccca gttgtatagt aatgtttcag tccatcatcc agctttgggt gctgaaatca 1380
tacagctgtg aagacttgcc tttgtttctg ttagactgct tttcagttct gtattgagta 1440
tcttaagtac tgtagaaaag atgtcacttc ttcttttaag gctgttttgt aatatatata 1500
aggactggaa ttgtgttttt aaagaaaagc attcaagtat gacaatatac tatctgtgtt 1560
ttcaccattc aaagtgtgtt ttagtagttg aaacttaaac tatttaatgt catttaataa 1620
agtgaccaa atgtgaaaaa aaaaaaaaaa raaaaaaaaa aaaaaaa 1667

```

<210> 604

<211> 1193

422

<212> DNA

<213> Homo sapiens

<400> 604

```

ctaacgtatt catgccttgt atttgtacag cattaatctg gtaattgatt attttaatgt 60
aaccttgcta aaggagtgat ttctatttcc tttcttaaag aggaggaaca agaagatgag 120
gaagaaatcg atgttggttc tgtggaaaag aggcaggctc ctggcaaaag gtcagagtct 180
ggatcacctt ctgctggagg ccacagcaaa cctcctcaca gcccactggt cctcaagagg 240
tgccacgtct ccacacatca gcacaactac gcagcgcctc cctccactcg gaaggactat 300
cctgctgcca agaggggtcaa gttggacagt gtcagagtcc tgagacagat cagcaacaac 360
cgaaaatgca ccagccccag gtccctcgga accgaggaga atgtcaagag gcgaacacac 420
aacgtcttgg agcgccagag gaggaacgag ctaaaacgga gcttttttgc cctgcgtgac 480
cagatcccgg agttggaaaa caatgaaaag gcccacaagg tagttatcct taaaaaagcc 540
acagcataca tctgtccgt ccaagcagag gagcaaaagc tcatttctga agaggacttg 600
ttgcggaaac gacgagaaca gttgaaacac aaacttgaac agctacggaa ctcttggtgcg 660
taaggaaaag taaggaaaac gattccttct aacagaaatg tcttgagcaa tcacctatga 720
acttgtttca aatgcatgat caaatgcaac ctcacaacct tggctgagtc ttgagactga 780
aagattttagc cataatgtaa actgcctcaa attggacttt gggcataaaa gaactttttt 840
atgcttacca tctttttttt ttctttaaca gatttgtatt taagaattgt ttttaaaaaa 900
ttttaagatt tacacaatgt ttctctgtaa atattgccat taaatgtaaa taactttaat 960
aaaacgttta tagcagttac acagaatttc aatcctagta tatagtacct agtattatag 1020
gtactataaa ccctaatttt ttttatttta gtacattttg ctttttaaaag ttgatttttt 1080
tctattgttt ttagaaaaaa taaaataact ggcaaataa tcattgagcc aaatcttaaa 1140
aaaaaaaaaa aaaaggtcga gccggccggc taattagtag tagtaggcgc cgc 1193

```

<210> 605

<211> 438

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (386)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (430)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (438)

<223> n equals a,t,g, or c

<400> 605

```

aatgccaaaa gtacttcccc tgtttccaca agctcgttta catcctcagc ccttgagaag 60
cccagtcagg aagcataacc tgatagcttg ggctgatgca atmacagaaa ctctggcctg 120
ctgtagcttt tgttctgctt aaagtgcagg cagagcagag cagagcagta attggctgtg 180
aatgaaaggg gattgtcaga atgagcctaa gttccggwtc taccaccgca gtttcgtatt 240
tgggccctgt tttaagccag ggtggctggt tggtgaaggt catgtgcgac ctcaggaggc 300

```

423

```

tgtcttgtca cctccctcat gtcaatagga agggaggtat tctccctcct ccagaatata 360
caggataatc tgtcttgcct gctaanagca ttcacctttg acctttgcat tctttgggtc 420
tggagatgtn tatgatcn                                         438

```

<210> 606

<211> 2674

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (75)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (206)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1782)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1923)

<223> n equals a,t,g, or c

<400> 606

```

gttcgscggc acagcagccc gagcgccccc tttccrgagc tccccctcgg agctggggtc 60
caggcgcgta gmggnatccc aggatcctgg gtgctgtctg ggcccgcctc ccaccatgac 120
ctcctcgggg cctggacccc ggttcctgct gctgctgccg ctgctgctgc cccctgcggc 180
ctcagcctcc gaccggcccc ggggcngcag acccggtcaa cccagagaag ctgctgggtga 240
tcaactacac tgtgcggacc ctgggcctgg gagaggagtg gcgagggggg gatgtgggtc 360
gaacagttgg tggaggacag aaggtccggg gggttaaagaa ggaaatggag aaatacgctg 420
accgggagga tatgatcatc atgtttgtgg atagctacga cgtgattctg gccggcagcc 480
ccacagagct gctgaagaag ttcgtccaga gtggcagccg cctgctcttc tctgcagaga 540
gcttctgctg gcccagagtgg gggctggcgg agcagtacct tgaggtgggc acggggaagc 600
gcttcctcaa ttctggtgga ttcacgggtt ttgccaccac catccaccaa atcgtgcgcc 660
agtggaagta caaggatgat gacgacgacc agctgttcta cacacggctc tacctggacc 720
caggactgag ggagaaaactc agccttaatc tggatcataa gtctcggatc tttcagaacc 780
tcaacggggc tttagatgaa gtggttttaa agtttgatcg gaaccgtgtg cgtatccgga 840
acgtggccta cgacacgctc cccattgtgg tccatggaaa cgggtcccact aagctgcagc 900
tcaactacct gggaaactac gtccccaatg gctggactcc tgagggaggc tgtggcttct 960
gcaaccagga ccggaggaca ctcccggggg ggcagcctcc cccccgggtg tttctggccg 1020
tgtttgtgga acagcctact ccgtttctgc cccgcttctc gcagcggctg ctactcctgg 1080
actatcccc cgcacagggtc acccttttcc tgcacaacaa cgaggtcttc catgaacccc 1140
acatcgctga ctctggccg cagctccagg accacttctc agctgtgaag ctctgggggc 1200
cggaggaggc tctgagccca ggcgaggcca gggacatggc catggacctg tgtcggcagg 1260

```

424

```

accccgagtg tgagttctac ttcagcctgg acgccgacgc tgtcctcacc aacctgcaga 1320
ccctgcgtat cctcattgag gagaacagga aggtgatcgc ccccatgctg tcccgccacg 1380
gcaagctgtg gtccaacttc tggggcgccc tgagccccga tgagtactac gcccgctccg 1440
aggactacgt ggagctggtg cagcggaagc gagtgggtgt gtggaatgta ccatacatct 1500
cccaggccta tgtgatccgg ggtgataccc tgcggatgga gctgccccag agggatgtgt 1560
tctcgggcag tgacacagac ccggacatgg ctttctgtaa gagctttcga gacaagggca 1620
tcttctctca tctgagcaat cagcatgaat ttggccggct cctggccact tccagatacg 1680
acacggagca cctgcacccc gacctctggc agatcttcga caaccccgtc gactggaagg 1740
agcagtacat ccacgagaac tacagccggg ccctggaagg gnaaggaatc gtggagcagc 1800
catgcccgga cgtgtactgg tcccactgc tgtcagaaca aatgtgtgat gagctggtgg 1860
cagagatgga gcaytacggc cagtggtcag gcggccggca tgaggattca aggctggctg 1920
gangctacga gaatgtgccc accgtggaca tccacatgaa gcagggtggg tacgaggacc 1980
agtggctgca gctgctgcgg acgtatgtgg gcccacatgac cgagagcctg tttcccggtt 2040
accacaccaa ggcgcgggcg gtgatgaact ttgtggttcg ctaccggcca gacgagcagc 2100
cgtctctgcg gccacaccac gactcatcca ctttcacct caacgttgcc ctcaaccaca 2160
agggcctgga ctatgagggg ggtggctgcc gcttctgctg ctacgactgt gtgatctcct 2220
ccccgaggaa gggctgggca ctctgcacc ccggccgcct caccactac cagagggggc 2280
tgccaacgac ctggggcaca cgctacatca tgggtgtcct tgtcgacccc tgacactcaa 2340
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gagttggggg atgggtctct ctgtctcccc acttctctgag ttcattgttc gcgtgcctga 2460
actgaatatg tcaccttgct cccaagacac ggccctctca ggaagctccc ggagtccccg 2520
cctctctcct ccgcccacag gggttcgtgg gcacagggct tctggggact ccccgcgctga 2580
taaattatta atgttccgca gtctcactct gaataaagga cagtttgtaa aaaaaaaaaa 2640
aaaaagggcg rccgctcgcg atctagaact agtc 2674

```

<210> 607

<211> 1609

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1593)

<223> n equals a,t,g, or c

<400> 607

```

cgggtcgacc cacgcgtccg cggacgcgtg ggtgtcgatg aaatcaagag tgtgatgttc 60
tagttatattt tttttatata tttttttaa tgttcaatat tcaactattg aaacaaatgt 120
acatctgtga actagctaaa atcatcttat gtaccactaa tatgcccagc acattttgta 180
aaacagtcct gattttggct ccaagggtat ttattgaact accagcagta tctaggagac 240
cacgaaggaa taccacgaag gaatttatgc tccagtgcct gccataattt gtctgagaag 300
gaatctgtta aataaaaagct tttatcctct aacctttacc ttcattcagac cttataaaaag 360
gtcaaatggg gatcttaagt ttttttagtca caaatcttac ttattcagta ttagtgcgaa 420
gagtagaata ctttcaagta agcctaaact tacatgaaam caaattacat aaatctagct 480
ctgagaatag gaaatttagt acaagatcaa tctgtaagat gttgagcact tatctgaagt 540
aaatgggtaa tgagtttcac atcttataaa tacaagttag catgtgtttt ctcaagagtc 600
caagggtttt cattattgga ctacagcttt aatcttctaa atgttattcc ccaagattaa 660
agagcatctc aagttagatc accaaagatc aaaagctaaa accagaagta tttttgtcat 720
tgtgggtggg gtagtggttac taattgccta gattttttaa gggaaacatt tttttcactg 780
ggttgtttcg ttgaaaaaaaa tagaagcaga aacttgccca aagtcacagt ggtcaaaactg 840
gaaattgcac caaaacttgg catactgggt ctgaaatcca tagtttttagc ccttatgtat 900

```

425

```

actgggttaat ttggaaggaa gaaatatata cgttctgaag tgaagagtga gtgaaaggaa 960
gaattcagtg aatacattga taccttgata ttatctgcat tgtggctaca tgttactttt 1020
cttcacaaga gtgatataag tgaaataaag aatgattgga ctgggaaaaa aatggctcag 1080
aaaactttgc aaaagtayga ctgtatgtaa agataagtat tcaacattaa atgggaagga 1140
ggagagcaag cagtttaata tatagaattt tataatttta ggctgcaag ggacctata 1200
aaacatgagc aatggaacac ttttttccaa actaaatttc gtgcagtgga acttggccga 1260
ctctgtcctt cctctattct aagcacctta ctctagcccg gctgctctga gttcagtttg 1320
ttacaaatat ggacacgaaa gtaccacagg ctttgcacag ctttaattgaa gtttcccctt 1380
cacaccatgg taaaaaaaca tactgggatg gaaggggttg tgtctagaac argaacaaga 1440
aataaactct tggctactta ctaatatctt aaaatcacia agcagaattt tgcttggatg 1500
kttaktaaaa catccttgga aatttaactg cttgcagctt ctaccttytt cattaaatgc 1560
tgtctggcta ataaaaagtg ccatgtgcag ctntatttta atttcaatt 1609

```

<210> 608

<211> 920

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (202)

<223> n equals a,t,g, or c

<400> 608

```

gacacgaagt ccgagaaatt gagcagcgac atatcaacac taccaaaaat aatccagtga 60
tgtcattgca agatcagggt cgctttgtaa agaataaac ttcttgaaa gagatgaaac 120
caggatttta tcatggacac gtttcttact tggattttgc aaaatttggg gtgaagaaag 180
aaaccaattt acattaatgt cntaagggat cctattgaga ggctagtttc ttattattac 240
tttctgagat ytggagatga ttatagacca gggttacgga gacgaaaaca aggagacaaa 300
aagacctttg atgaatgtgt agcagaagggt ggctcagact gtgctccaga gaagctctgg 360
cttcaaattc cgttcttctg tggccatagc tccgaatgct ggtaggggag ataaagttgg 420
ctcagattga ttatcatcct tattatctct ataatctgtg tttcatttca caagggctag 480
atatagggaa atcggtgaaa gactagacta aaaataacat gtaattcagt aatatctagt 540
tttgcagtta cttttaaatg catttaaaag attcctcatg tagagtgata tcctaataatc 600
cttgcaattgt tttctgagat gccgggtttt agtatttctt atttttgggt ttatgttttg 660
ctgtattcca gcagagctct tagagactgg ggggtgggggt gggkggtcata aatcttattt 720
tgtccaaagc ttactgtttt agctattcat gttaaattaa gaaaaggcct agtgggttaa 780
aatccacctg gttttactgt taaactgatt ttgactttta gagaagccaa ggttatggct 840
gtgggttagt ttgctagtaa atatcaagtg gaaaataaag atactttaat aaaaactgta 900
tttcctcaaa aaaaaaaaaa 920

```

<210> 609

<211> 283

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (60)

<223> n equals a,t,g, or c

426

<400> 609

```

acgcccgcag gtaccgggtcc ggaattcccg ggtcgaccca cgcggtccgaa ggaagaaggn 60
gggaaacctc aaatgaattc tgaagggggag ataccttccc tgccatcagg cagccaatct 120
gcaaaaccag taagccagcc caggaaatca acccagccag atgtttgtgc ctctcctcaa 180
gaaaagccac tcaggactct gtttcaccaa cctgaggaag agatagaaga tgggtggactc 240
ttcattccaa tggaagacaa gacaatgaag aaagtgagaa aag 283

```

<210> 610

<211> 498

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (411)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (417)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (464)

<223> n equals a,t,g, or c

<400> 610

```

aaagcccaac ncccccgtaa acccagaatc tcccatatgg taacctgtgt gatgctccgg 60
attctcctcg ccagtggaag gcatcaaggg aagatagtggt tttatttagt cctattcgat 120
cctctgcttt tagtctcttt ggaggctgta ctccagctga atgtttttgc caaacagata 180
ttggtggaga taggattcat gaaaatcatg attctgttta ttacacctat gaagactatg 240
caaaaagcat ttcatgtgaa gtactagggt cagttcttcg taccaccat actaatacc 300
tatcaaatat taacagtatt aaacatggag aaaataaaac tgtaactttt aagcatggaa 360
accttgatca aaaaaataaa tctaaaaata aatccttaat gaaaaaaaaa nattaanaaa 420
aaagggcggg cgctctagag gatccaagct tacgtacgag tgcntgcgac gacatagctc 480
ttctatagtg tcacctaa 498

```

<210> 611

<211> 1069

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (176)

427

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1060)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1061)

<223> n equals a,t,g, or c

<400> 611

```

cctttgaaat acccctcact aaaggggaaca aaagctggag ctccaccgcg gtggcgggccg 60
ctctagaact agtggatccc ccgggctgca ggaattcggc acgagcggca cgaggtatcc 120
acagggccac agcgacacca ctgtggctat ctccacgtcc actgtcctgc tgtgtnggct 180
gagcgctgtg tctctcctgg catgctacck caagtcaagg caaactcccc cgctggccag 240
cgttgaaatg gaagccatgg aggctctgcc ggtgacttgg gggaccagca gcagagatga 300
agacttgga aactgctctc accacctatg aaactcgggg aaaccagccc agctaagtcc 360
ggagtgaagg agcctctctg ctttagctaa agacgactga gaagaggtgc aaggaagcgg 420
gctccaggag caagctcacc aggcctctca gaagtcccag caggatctca cggactgccg 480
ggtcggcgcc tctgcgcga gggagcaggt tctccgcatt cccatgggca ccacctgcct 540
gcctgtcgtg ccttggaccc agggcccagc ttcccaggag agaccaaagg cttctgagca 600
ggatttttat ttcattacag tgtgagctgc ctggaataca tgtggtaatg aaataaaaaac 660
cctgccccga atcttcctgc cctcactcta actttcagtt cacagagaaa agtgacatac 720
ccaaagctct ctgtcaatta caaggcttct cctggcgtgg gagacgtcta cagggaagac 780
accagcgttt gggcttctaa ccacctgtc tccagctgct ctgcacacat ggacagggac 840
ctgggaaaag tgggagagat gctgagccca gcgaatcctc tccattgaag gattcaggaa 900
gaagaaaact caactcagtg ccattttacg aatatatgcg tttatattta tacttccttg 960
tctattatat ctatacatta tatattatgt gtattttgac attgtacctt gtataaacia 1020
aataaaacat ctattttcaa aaaaaaaaaa aaaaaaaatn nctgcggcc 1069

```

<210> 612

<211> 899

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (116)

<223> n equals a,t,g, or c

<400> 612

```

gctttgtatt gcttatattg catctgagat tgtttgtatc ttttttcctt gactagtctt 60
gctagagggt tatcatattt attgtttttg ctttacaaag aagccaatat ttttgnnttt 120
cttctttgtt atattttctc tattttgttg atttcagctt tttcttttct atgttaatat 180
gtcatattat tgtagtggat ggtagctct tcaaattttc aactttctat tctgatttac 240
atatttaaag ctatagattt ccatgataat gctactttat ctcttgcggt agttttctat 300
gctgggtaac aaattaccac aggtttactg gtttataaca gcataatttt attatctcac 360
aatttcttgg gggttaagagt ttcagcatgg cttaactggg tctcacaagg ctgcagtga 420
gtcagctgaa ctryrttgtc atctggagct cacagttctc ttctaaatta atcagattgt 480

```

428

```

tgataaaaact tagttccttg aagctgtaga actgaggtcc tcagctactt agggctgctc 540
ttttatataa gcagtgtaac gtgacatgcc tttttaaggt cagcagaact tctgactaga 600
atctgtttca gagaaggcca gaaagagttc acttggktag gtcagagwca cctgggatag 660
tctccctttt gattaagtca gagtcaacta aataggcacc ttaattgcat ctgcaaaatc 720
ctttcacttt tgccatattc tcttactaaa tgtaacagggc gttgtccaca caaaggatg 780
gatatcgggc ttggaaagga tttcaggaac catcttagaa ttctgcctac tactaactcc 840
attctacaag tctcaatatc tagcatttta gttattcact aactgcaaag ttttttatt 899

```

<210> 613
 <211> 532
 <212> DNA
 <213> Homo sapiens

```

<400> 613
gaacactaaa cagactattht aacttgaggg taataaactt agaataaaat tgtaaaattg 60
tatagagata tgcagaagga agggcactct tctgcctttt ttattttttt aagctgtaaa 120
aagagagaaa acttattttga gtgattattht gttattttgta cagttcagtt cctcttttgca 180
tggaattttgt aagttttatgt cttaaagagct ttagtcctag aggacctgag tctgctatat 240
tttcatgact tttccatgta tctacctcac tattcaagta ttaggggtaa tatattgctg 300
ctggtaattt gtatctgaag gagatthtcc ttcctacacc cttggacttg aggattttga 360
gtatctcgga cttttcagct gtgaacatgg actcttcccc cactcctctt atttgctcac 420
acgggggtatt ttaggcaggg atttgaggag cagcttcagtt tgthtttcccg agcaaagtct 480
aaagtttaca gtaataaaat tgthttgacca tgaaaaaaat aaaaagtcga cg 532

```

<210> 614
 <211> 511
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (460)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (503)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (508)
 <223> n equals a,t,g, or c

```

<400> 614
gctttgaaac caattgcaga ttgcttggtt ttatacaaac tttgattagt ctttggcagt 60
agaaggcagt ttgctaaagt ggcttttacac ttgggattat gctgtttctt tggtgataca 120
taaagttcac atthttttttt ttataacttc atgggtcaaga gcttgggaag aaagcccaag 180
tctcacttga ggacctgatg taattgcttc tctttgagct ccgaagaaaa gattgaggag 240
ctgctctttt gatttggggga gtgagcaggt taagtgtctt tactttactt tgscacccty 300
gtacagacaa agtccgggta caaaggcggg taactccaat gtgctattct ttttttytta 360

```

429

```

ccagcttttac tggggataat gcacatactg tacaattcac ccacttaaag tgtacaattc 420
agtggggtttt agttttattca tgggggttgt gcaacccttn accataaatc tatttttagg 480
ggcacttttc atcatctcag ggnggaancc t 511

```

```

<210> 615
<211> 505
<212> DNA
<213> Homo sapiens

```

```

<400> 615
gctcggcgag atccagtcca cagcttgctt cactcttaga acagcggcat cctctatttg 60
gtctcgcacg gggaacttgc tggggtaggg gagagggtgt agagctttga aaaagctttg 120
cctctcggag gagtcaaagg ggcagtaact gtatgggggt agaggaaggc ctgcgaaata 180
aaaaggcaaa ggaaccgttt gaggaggcta gttgccttct cggggccggt gtgtgtgcgg 240
gggtagtggt aagggggagg aaggagcccg kgagcccgga ggaccctccc ggagggtgcgg 300
gcctgaaatt ccgctgggtg ccgggagggt ccgccctccg gactactgac ggccttcgca 360
gccaatgcgc agccaggacc tcgcgttcgg gagggcggtt acttcctact ccagccctgg 420
gctcggagaa ggccgcgtta gttctttttc tagggatgtc tgcggaaggg gcgccagggt 480
gagggccagc ctggagaaag aaaga 505

```

```

<210> 616
<211> 778
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (226)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (253)
<223> n equals a,t,g, or c

```

```

<400> 616
tagggttcta ggccccgttt cctggggact tgaaggcggt ttacataact ggtcagacac 60
ggctggaggc caaggtcaag ttgaaagttg cagtccagcc agcatgagaa ctgccatgcg 120
agcgtagaga cacaggcagc agcaaaaggc ccattgcccc catccccctca ctcttaattt 180
tctctctctt tttaaaattc tcgcctctga ctgttcgggt gcccanaatt ttttgggtgcc 240
ttcgtggggg ttntggggcg gtgtttaccg actcttctct gcctccgccc tgctcagcca 300
gggctttgag cctcttcggt tttccggcca gacccggaaa aacgaaaaca cagcttgggg 360
agccccact agccggcgcc tgtgccagct cactctggc catggcgag ctgccggtgc 420
acacggcggc caaggccagc tccacattct tccctcccc tcccacttca ccgtagcccc 480
gaaccctgcg cgcagagaaa ggggtctcagc tccacagacg actgggtccc tcctcaccaa 540
aatgggtgag acaagatttc atctgtcggc cgaggagcca caagcagggt tgtctgagag 600
ggatgggtgct gggggaaggc tttggattgc atctcaaatt aagctttgct ccttaaattgt 660
ggcgtctcgc caagaaaaag cttggggcct gaattcttga gatttatggg gcaccttatt 720
gatcaaatat atctggactt ttttttagtt cccgatgtgt ccctatcatt aaaaaaaa 778

```

```

<210> 617

```

430

<211> 750
 <212> DNA
 <213> Homo sapiens

<400> 617
 acccacgcgt ccgttaaaac gtcataactt aaatatcaaa attaaaaata aatcaataaa 60
 atagcatttt aggacatgct gttttgaatt catgccttcc ctttccattt tggtgatcat 120
 cactgtttta gattcttaac ctctataaac tcttataaaa attggccact gcaccagcc 180
 taggggtttt ctttttgagg tgataaaaat gttctaaagt ttatagtgat gatgcttgca 240
 atttctataa gtagacttaa tgcagtgatg gttgcaaatt ctataaatat atttaatgtg 300
 gtgatggttg caaattctat gaaaaaccca aattgtacaa tttcaatgag tgaaagcatg 360
 ctatgtgaat gtcttcataa aggttttatt taaaaaatga gcaaacggta gaatgttaac 420
 atggcccacg tctatgtggt gtctatattg gtttctatta tatgttttct atgtggttga 480
 aacattccta ataaaatgtg catagttttt taaaaaraa aacacatcag tggacgtgaa 540
 tgcaggatgt cttatgaatg ctacacaga agctcccat cgtgagggaat gcagggaaaa 600
 gcagaagatg gagtaggagt tggcatggcc cagctagctc agatgacaca cgatgggtccc 660
 agtggcatga cttggtttgt gtgatttgtg ccttgggggt ttattttggc acattataaa 720
 ggagtaaata aagcctgtat acagtcaaaa 750

<210> 618
 <211> 451
 <212> DNA
 <213> Homo sapiens

<400> 618
 ggcggccgag tggaaggagc aggcgcttga gctcgagcga cggcgctggc ggagacgccg 60
 gctgtctctc cctccccgc cgggtgagtga gcgccccgc cccggacgct ggcgcggtc 120
 ggcgccccct cacggccctc cgcggtgggt ggggacagtc gtgagggagc gtggcctggc 180
 ggcgcakcgg acgcgggctt ggctccccgc tcgcggcctg tcggggctgg gacctgccgt 240
 cgcccccggt cgaggttgaa gccccgggccc taggaactga cccccagcat cccacggggc 300
 ctcttttctt tcccggctca ttccgctgtc attttgacct ggggttcccc tccaagcccc 360
 tcgccttcgt tcccttccca agcatcccag ggccgaggtt gagggagggg cgtgtgagaa 420
 gtcgggcccga ggmccgaggga ctgtttaagg a 451

<210> 619
 <211> 1080
 <212> DNA
 <213> Homo sapiens

<400> 619
 aagagaaaga taccatttga gactccagaa tctgcctcta actctcaaca agactctgca 60
 attactcaag taccctttcc atcctcattg ccttgcgtgt attacatagg ccttggttca 120
 agtccttggt acttggtccc attattgcaa taacttctaa ttccaatgcc gttgtgtgat 180
 cccattttta acacggccag agcagtcctc caacaacata gctctaattc agtttcatcc 240
 ccacttttac atgcytcagt ggctttccca gtgacttggc atggaacacg tcctcagttg 300
 ccatacatc cagctaaact ttacccaacc tttctttgtt cacacagttt ctttttctt 360
 cctcattgac ccatccgcat ctctgtttat ccaagacttc tctgtgatag ctgacctta 420
 gtctttctct cccctattcc tccagactag atcctgtctc cttcctgcag ccccgacaca 480
 gccttcagtt catatctttt gcatgatgct tagcaccttc tatccctaag gacaacttac 540
 tcatttgaga tttctggcag ggtaccttgc atgcagtggc cactcagtat ttgctgaatt 600
 aaattccttc ctatggatcc cttctgattt tttttaagtg cctctaatac acatatcatt 660

431

```

ctaggggtca tgccactttt aatgtcattt tctaaaggaa aatcttatct atgatatttt 720
cccttataag agatagttgt tttgagtagg gttttttaaa agataaagggt agtaggaaat 780
tttttaaagc ctaaatatca aattcctttc cctttggagt tgggggaagk aatgaagggg 840
gagcaacttg ctctttcata tgagttgggc atagcatgta agaaccaatc ttgaaatatc 900
gttttttttt taatggctta taatgtattt ctagaaatac tttgtactta aaatgataac 960
agtttgtatc tttttgtcca tataaagata cttttataaat aaaaaaatta gcattgtaaa 1020
taatgttaat atgtatttat acaaaataaa tttactataa tataaaaaaa aaaaaaaaaa 1080

```

<210> 620

<211> 823

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (646)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (699)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (717)

<223> n equals a,t,g, or c

<400> 620

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ggagggtttcc tttgtccatt aagcaagccc caagaaccag aacccttttg ctgcttttct 60
tacataccta acagctctcc agtcatgatg accaagggtt ttcttcaatc aaatgtgttt 120
gwgggatttt cagtccgcaa atgaagtgtc ctctaataaa tgggacacca tgataaatat 180
gtattttatat ttagatgcca aagtatggcm aattattttc aaatgataac taaaaatggg 240
aattttcgat attctacctt ttttatagaa ccagctcact tttcattttc ttttcatttt 300
gaattaagaa aattgktgag gatgtggttg gttccagtgt gtggaatgga aaggaaactg 360
cagaatagtg tctgtccccc attcagaggg actgcttctc gtgcccccca gaccgggggc 420
ttcgacagct tctccacatt ccacacagat gcctaggagc agcgagtttg tatatgaaaa 480
gtctcccccac ttttctccta aaacttctct cctttctctc cataaaaaga aaaggaaagg 540
aacaaaagaa aaacattcag tttttctttt tctgaaaaag gtaagtcctt tctgaaagtc 600
atcaaatgaa acattatctg gaaattagtt tctaagtgtt tataatnaaga aatacttaaa 660
tataagttcc tgcagtattt attagatagt tgtaactgna aactcacctc ctagtanata 720
agagtttcag gttaaatact ggaacatata taggcagtca aaaatactac tttaaatgca 780
ttcacctaatt ttaaagccat ggtttaaacac tttttaaggc caa 823

```

<210> 621

<211> 720

<212> DNA

<213> Homo sapiens

<400> 621

```

gctctaattgg aggaaacagt caacatgcaa aaatagatgt gtaatgtaag aagagtgatg 60

```

432

```

gaaactctag gaaacaatca aaaggaaatg ctagaaataa taaaaatcac tgacataaat 120
aaagaatgtc ttcaataggt tcatcaacag aacaagtttg aggaaagaat gagtaagctt 180
gaagataagt caacagaaat aatttcgaaa gtataatata catctatttg gaataccaga 240
aggagaagaa caagaacaag aaactaaaga aatatttgaa gtaacactgt cagaggattt 300
tcccaaatta accacagcaa mtcacaagtc aagaagtaga gaacagtaaa caggagaaat 360
accaaacaac ttatacaca acttcagaaa accaaagaca aaaagaaaat cttcaaagga 420
gtcagagaaa aagtaacctg acttacagca aaacaggaca agaattaaat tagacttccc 480
atcagaaaca cagaagcaag aagactggag tgaagtattt aaatgctaaa ataaagaaaa 540
aaaatacaaa cttgagaaat aaagacttcc tcagacaaat gctgagggaa ataataacca 600
tcagaccttc cctgtaagaa aatattaaaa gaagttctca cggaaaagga aggtgataaa 660
gttcagaaac tcaaactctgc gtaacaaagg aagagtgcc aagaaggaat aaataaaggt 720

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<210> 622

<211> 332

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<400> 622

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gccaccagta cctagccaaa gttagtttta atgtgagagt caaggactac agtggcatgc 60
tgaggtaaca actgcaggag catcgaggta acagcaaaaa tcttttactc caattgggtc 120
aatccagtta accatgtaag aaactcctca cctaggggtca gtatgttact tctgtatttc 180
tgcaagcaca atccactgac ataaaagtct aataattaga ctttattgta agtetaatgt 240
atcttgtaca tgataaaatg tatgaacttt ggatcaatat ggcaagctga agacacctgt 300
catgtggggg gactattttg tttgggttct an 332

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<210> 623

<211> 510

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (76)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (491)

<223> n equals a,t,g, or c

<220>

433

<221> misc feature
 <222> (501)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (504)
 <223> n equals a,t,g, or c

<400> 623
 taaggctggt tcagagtcctg agttgacttc tctttaatct acctatagaa ctttttaggtt 60
 tcaaaaaata cttttnaaat gacttttttg gtttggaag tacctttaat acatttaagc 120
 tagttttcct cctggaaata tttagaattt ctctcttaat tggcaacctt tatagaagtc 180
 tggttaagatt tgtcgcaaag atgtgccaca gatggacaca aatttcccat tcgggagcaa 240
 tatcttacca cagtgggtggc taaatgctag ggacaaaata caaggccgga actttccttc 300
 cctcagatac cttgtgctgt ggtgttttgt tgccactttc tccctctcat tttcaattat 360
 atgcacaatc ttccctttct agagtatgac tttggccaga tgactcacct gatgccacct 420
 aagggcattg cctggccagg tacattttctc tggctccagc cttggctaag ntgatgacct 480
 gagtcgatct ncacattcat ntcntgaacg 510

<210> 624
 <211> 653
 <212> DNA
 <213> Homo sapiens

<400> 624
 gtttttttat ggaaagaaca taaacatagt tttctaattt ggagaaatcg gtcttaatgc 60
 aagtaggcat tttaaaatta catttatgaa ttatttttag accctacata atctttttta 120
 ttctgcaatg ttaaacaggt tctctagaaa atctgttttt gtttcctagt gactattaaa 180
 ctattctctc ctacaacagt aatattttatg ctataaattt aaatcatcat ttttgttttg 240
 attgattata agatatatgt tttattatca tgtagcctag ttttaagagtc ctcaatatwt 300
 ctgaagtttt agtgattctg ctgagagaga gcatagaaaa aaataagaaa aaaaaacca 360
 acctagtatc tgttgktcag tagattgtag gtacttctgt ttatagaaat aataagggga 420
 aaatgggtat tttagaatga ggatcttttg tgktgkacct cttgcttctc ttttatttga 480
 ataataaagg raataacatc aaattaatgt ttarcctact ttartatgga tattgaagtt 540
 aaaatgtcat tcatttgcac ttatttagga aaagaagata tgcttcttaa acaaggctcag 600
 atgtatatgg cagactcaca gtgtacttcc ccagggtatc caggcccaat gca 653

<210> 625
 <211> 421
 <212> DNA
 <213> Homo sapiens

<400> 625
 gagacagagc aagatgcctt caggaggaat ctctggccgt cttcttttgt aatatccaaa 60
 gagcttttgt cagcgttgat atcaaagcgg tgtgaagaaa acataaggcc ataagactaa 120
 tctctggaga gctgcacact gaaggggaac mtaagttctt gagtccctgg agtaccctaa 180
 gkttggttcc agagaggggtg ccattcatga gcaacactgc tagccattag tggccagcaa 240
 gaaggggagt gaaaggagta tctttagat ggtgacttgg gtaatatgaa attgctgtca 300
 tcaaggttta tcaaaamacc aaagggttaa tattacatgt aggcaatgtg aggctgcccc 360
 aaatgggtgtg tttcccagga acttgattca actctgagaa taaatgcatg agtactgaga 420

434

a

421

<210> 626
<211> 500
<212> DNA
<213> Homo sapiens

<400> 626
tcgaaccttt tggatctctg tcagaaatga atgtttattt ctttcaagtt ttatcaagta 60
ttaatacgtt ttattttatat tcttttaaat gttttattca gtagttctgt gaacttcaga 120
ctttgttggt cagcctaate gtatgcttct gtaacttcta cacattttat aagaactcat 180
tcaaagttgt agtccctacca tagtgtttca gggttccttg ttgtgtacac ttttactata 240
atggcaaaat gtttcaaaat cattcagctt tttaaagaaa cttattatgc aaaagacact 300
cttgaaatgc tgtgcatttg agctgaagtg aaagaatttg tttcatgttg tactttgcat 360
tatttttaagt tttcacatct ttaatatgct tttctatgct aattatatta gaaatctata 420
aatataagtg gtttcttttg ttaaactagt cattaataat taggttgaaa atgaaaaaaaa 480
aaaaaaaaaa aaaaaaaaaa 500

<210> 627
<211> 545
<212> DNA
<213> Homo sapiens

<400> 627
gttgggtacgc ctgcaggtag cgggtccggaa ttccccgggtc gacccacgcg tccgctctgt 60
tcctctgtgg ctactctccc atcttaaaaa cgatccaagt ggtccttttc ctccctccctg 120
ccccctaccc cacacatctc gttttccagt ggcacagcaa gttcagcgtc tccaggactt 180
ggctctgctc tcaactccttg aacccttaaa agaaaaagct gggtttgagc tatttgccct 240
tgagtcattg agacacaaaa ggtatttagg gtacagatct agaagaagag agagaacacc 300
tagatccaac tgacccagga gatctygggc tggcctctag tcctyctccc tcaatcttaa 360
agctacagtg atgtggcaag tggatatttag ctgttggtgt tttctgctc tttctggtea 420
tgttgattct gttcttttga tactccagcc ccccgaggag tgagtttctc tgtctgtgct 480
gggtttgata tctatgttca aatcttatta aattgccttc aaaaaaaaaa aaaaaagggc 540
ggcgcg 545

<210> 628
<211> 679
<212> DNA
<213> Homo sapiens

<400> 628
cccccgtttt aaaagatcag tagtctctat tcaaactttt aaaatgtcgt ggtattgtaa 60
caatatattt gatgaaagaa gggtacagac tcccctgaag aaccagcttt cctacgcttt 120
ttatttttct aacttgtcta acctgatttt aaaatgactg caattccaga ctaaaaacat 180
gcttcagccc tgtttcaaga cattatgctt cttttaacag tccaaattag tagttttatt 240
tttcttctaa atctttgttt cacacttgta aaatcttggg aaggagggtt ttaaaacttt 300
gccaggaatt gttacccatt tccaaaaaca gtttattatg ttcaaaaacc accatatctt 360
tgaggggactg tttgaaaggg gagagggcaa cgcgggaaat aattcactct gcgcaccgga 420
actattgtag ttcaggactt ccagctactg tatttagatg ttgggtttga atatacagat 480
ttcttttcaa tacctgtaaa tatggctata ttcttgattt tgtacgggag tgtacaaaat 540
gacactgaaa agtaataaat atgttttgac tataattgtgc agttatttca gaactgtgtt 600

435

ttgaaagtct tagaatgcat aatttgcatt tgagtaagga aattttaaata acagattact 660
gctgagattt taaaaaaaaa 679

<210> 629

<211> 905

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (165)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (793)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (803)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (816)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (843)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (869)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (889)

<223> n equals a,t,g, or c

<400> 629

cagtcgcaag tgactcttgc aataatagca tctcactcct atctgaaaag ttgacaagca 60
gctgttcccc ccatcatatc aagagaagtg tagtggaagc tatgcaacgc caagctcgga 120
aatgtgcaa ttacgacaaa atcttggcac caagaaaaac ctagnccatg tcaataaaat 180
cttaaaagcc aaaaaacttc aaaggcaggc caggacaggg aataactttg tgaaacgtag 240
gccagggtcga cctcggaat gtcccccttca ggctgtcgta tcaatgcaag cattccagggc 300
tgctcagttt gtcaaccagc aattgaacag agacgaggaa ggagcagcac tgcacctcag 360
tcctgacaca gttacagatg taattgaggc tggtgttcag agtgtaaata tgaaccagca 420

436

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acataaaaag ggggttgaaga gaaaagggttg gctattggaa gaacagacca gaaaaaagca 480
gaagccatta ccagaggaag aagagcaaga gaataataaa agctttaatg aagcaccagt 540
tgagattccc agtccttctg aaaccccagc taaaccttct gaacctgaaa gtaccttgca 600
gcctgtgctt tctctcatcc caagggaaaa gaagccccca cgtcccccaa agaagaagta 660
tcagaaagca gggctgtatt ctgacgttta caaaactaca gagtaagtag tagtacctat 720
tagctaacat ccccttttct tccacatttg gaaaaatact ttgactatca aaaaacaata 780
tagattcttt tngntttcat aancctgat gattngttt ttgcactcat ggattgaagt 840
acnccctcct taaacttttg ggtcaaggnc aattacatta ccccttttnt gatgtggggg 900
ggaaa                                           905

```

<210> 630

<211> 800

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (732)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (772)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (776)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (798)

<223> n equals a,t,g, or c

<400> 630

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gcagcctgga cggtcgcag agacgttccct gtcttaggcg tcccacgaga tgctcctggt 60
cagccctgcc gaggtggaag cttggagtgg ctcacggtgg atgcattgac gctgcagacg 120
ccagcaagtg ctacaaacca gagctggcct ttaactcaga ctgatggaga aggtgttaat 180
aatgcagatt agacttaaaa gtgttgaagc cattgcactg tgaacagcaa aaaaattgaa 240
gaactcttct ggcatttaaa aacaattact cagttcagca gagaagtcac tgacaaacga 300
gatcacactg actgctttgt cgttttggtt ttgtcttact cattaatgca aataagaaca 360
ttcactagca tctgtgtcgg gcctaccctc cctgggtcaaa tacagctaca gtctccctgc 420
agatacgagt tttccagaaa tgagccgatg ttttctgcga gaatcaattg gtcatatata 480
atttacaaaa atgagtactg tatactatat ttgtaaactg tacactgcag atgctttatt 540
tactgaaat ttataatata cttatccatg tatatgcatg catgcatttt tgttcctgag 600
atccagctgt gaaatgttta ccagcacata aattaccagc acatgctctt ttttggttaac 660
ctactaggta aaatcttcat ttattacatc aaaaaaaaaa aaaaaagggc gggccgcttt 720
agaggatcca ancttacgta cgcgtgcatg cgacggtcac agcttcttct antagngtca 780
cctaaattca atttcacngg                                           800

```

437

<210> 631
 <211> 378
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (13)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (17)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (40)
 <223> n equals a,t,g, or c

<400> 631
 actaacgggg ctncacnatg gaagctcatt ataggggaatn ctggtaacgcc tgcagggtacc 60
 ggtccggaat tcccgggtcg acccacgcgt ccgcggggagc cctttgctgt gtgctctgtc 120
 cagtgtcatg agacggggagc cctttgctgt gtgctctgtc cagtgtcatg agacggggagc 180
 cctttgctgt gtgctctgtc cagtgtcatg agacggggagc cctttgctgt gtgctctgtc 240
 cagtgtcatg aggcagggtgt ttgcaaagcc agctctcggg tccgatgggg tattgctgac 300
 ctacttttct aggggaaatg ctcttaaaca ctgtaattat gcattttctaa tgaaataaaa 360
 tgtatttawr accacaaa 378

<210> 632
 <211> 602
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (529)
 <223> n equals a,t,g, or c .

<220>
 <221> misc feature
 <222> (540)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (548)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

438

<222> (583)

<223> n equals a,t,g, or c

<400> 632

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gccccgcccc gtttgaggac ttgctatccc cgtgggaaca tcaccatgtc cgaggcaccc 60
cgggccgaga cctttgtctt cctggacctg gaagccactg ggctccccag tgtggagccc 120
gagattgccg agctgtccct ctttgctgtc caccgtccct ccctggagaa cccggagcac 180
gacgagtctg gtgccctakt attgccccgg gtccctggaca agctcacgct gtgcatgtgc 240
ccggagcgcc ccttcaactgc caaggccagc gagatcaccc gcctgagcag tgagggcctg 300
gcgcgatgcc ggaaggctgg ctttgatggc gccgwggtgc ggacgctgca ggccttccctg 360
agccgccagg cagggcccat ctgccttgtg gccacaatg gctttgatta tgatttcccc 420
ctgctgtgtg ccgagctgcg gmgcctgggt gccgcctgc cccgggacac tgtctgcctg 480
gacacgctgc cggccctgcg gggcctggac cgcgccaca agccacggna cccggggcccn 540
gggcccgnca gggttacaag cctcggaag ctttttccac cgntactttc gggcaagacc 600
aa 602

```

<210> 633

<211> 669

<212> DNA

<213> Homo sapiens

<400> 633

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gacaggatac gtccctgtaa cccaatctct cggttgattg atagcagaac agctcttggt 60
ggtctgagaa ggcaggataa gtgaccacat atttatgcca ctacctccac cagggagagt 120
ccttctccac aggcttgata aattcaatca ccaactgtgc tgctgtccct gactctgcta 180
ctcccgttct tctgtcttct ctgctccgta tctcagtctg cactgacccc agggctgggc 240
tgacatcaag atgggagccc agcccacggg ctttataaac acccaagaac cgtttcagat 300
cttctctgtg ctgatgcagg tagtttttaa tttttctcag ttccagtgat agaaaacca 360
cacaatacat cctctgccag tcttaataga atatcagagg taagaggggc ctgagagaag 420
ctctgacgca gtgctgctgg ggaagggaag tgactaacc cgggtcagcc tgccatttag 480
ggaaagagct gaggttctta cccttgttgc atgctgccac ctctccttag ccagtgtct 540
tgtacatcca cacagcacc taaggagcca tagtcaccat caaagactca accctaaggc 600
ccttcaagat ctcaaagtgc cttctgaagc atcagagatt aaatattggt caaactaaaa 660
aagtcgacc 669

```

<210> 634

<211> 405

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (330)

<223> n equals a,t,g, or c

<400> 634

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gcaattttta actaggttat cctgtgaatt aaacatttta atttattttt tatcatgtat 60
gatttattta tagatgcata catatgcagt aaaagcagta aaggaagcat gagaaagata 120
aacacaaatt gatggtggca gtgacctctg gggaaagaat tataggataa aaacaaaaaac 180
atatatactt taaaaagtat acttcgtgkt atgaaatatt ctcatgtgaa tgcattgtta 240
aatggratwa aagtagaata agttataata ctgggtactt agaaaccaga tattaactt 300

```

439

acctttatta tagtggtacc tgggtgccsn tagaattaca gtactwaaag gtacaaatta 360
tactaaaaat gatattggaa gatttgcaca tgggtgggtt ttaag 405

<210> 635
<211> 1329
<212> DNA
<213> Homo sapiens

<400> 635
agagagaaaa gcacctttga atgcagtgaa tgtggaaagg ctttcagtta tctctcaaac 60
cttaatcagc atcagaaaaac tcataactcaa gagaaagctt atgaatgtaa agaattgtggg 120
aaagcttttta ttcggaggttc atctcttgct aagcatgaaa gaattcatac tggagagaaa 180
ccctatcagt gtcmkgaatg tgggaaaacc ttcagttatg gttcatccct tattcagcat 240
aggaagatcc atactggaga acgaccttac aagtgtaatg agtgtgggag agcattcaac 300
cagaacatac accttacaca gcataagaga attcatacag gagccaagcc ttatgagtgt 360
gctgagtgtg gtaaagcctt tcgacattgt tcatctcttg ctcaacatca aaaaactcac 420
acagaagaaa aaccctacca gtgtaataaa tgtgaaaaga ctttagcca gagctcccat 480
ctaactcagc atcaacgaat tcacactggg gagaagccct ataagtgcaa tgaatgtgac 540
aaagccttta gccggagcac tcatctgact gaacatcaga atactcatac tggagagaaa 600
ccttataact gtaatgaatg cagaaagact ttagccaga gcacatatct cattcagcac 660
cagagaattc attcaggaga gaagcctttt ggatgtaatg attgtggaaa atccttcaga 720
tatcgctctg ctctcaacaa acatcagaga ctgcctcctg gcataatgaca attctaggaa 780
catcataaat ttagggggaga tattttacttt agtttgtcct tttgttaagt actgaagaat 840
cagagtggat ttagaaactg ccttgaaatc ttttaaattt tcactatcat gttatggaat 900
ggaaagtaca ttgggctgaa ctaatccaat tgttattaag ccactctgtg acattagaaa 960
actctactgt ttttaagcttt agtttccttt atggaatgaa ggmmttgag tagattattt 1020
caaaggtagt ttggagtttt ataatcagtt ttgtatatatt acaatatatt cttgaatggg 1080
tttactatac atcagcattt tgctgtgttg catctagaat gtgtatgttt atgcatgttt 1140
tgccaataga atttgtgctt cagtaactag atcggggatc tagtatgtc ctggtctaat 1200
gcatttacat tgtttaggta actggttcct aataaaaaaga attataaaat accctcaaat 1260
taacaattca attgcatata atagcctaac tcagtaagaa tattaaaact tactattatt 1320
aaaaaaaaa 1329

<210> 636
<211> 440
<212> DNA
<213> Homo sapiens

<400> 636
gctgctggaa gcccaggcgg gggaaggggg ccgtgtgtcg cgsagagcgc ccttgagcct 60
tacgcagagg tcttgtgtgt tcctagttaa gccctccac gcccgaggcc ccatogettc 120
ctctccaccc tctttaccca ccaatatcc aagcccagat cctaattccc caccgcatta 180
ccccgccctg gatttgggga atgtttttct ttattttaat atagctcaag gaaaaatac 240
gtatatcttg agagatttgg ggtggggaaa acaaaagcct tgcggagtar aaaaaacaaa 300
ggcttatttt tataaatgtt taatgttttc accccctgga tgctccgara cgccgtaatt 360
gtgacggcgg ggtacgtgtg ccataaatca ttagttgtc aataaaaaatt ctgcctgttt 420
gccctggaaa aaaaaaaaaa 440

<210> 637
<211> 1216
<212> DNA

440

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1078)

<223> n equals a,t,g, or c

<400> 637

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aagnggggaa acgcttcagg ctgatgtggt gatttacggt attggtatca gcgccaacga 60
gcaactggct cgcgaggcca accttgatac tgccaatggc attgtcattg atgaggcttg 120
ccgcacctgc gatcccgcca tctttgccgg tggcgatgtg gcaatcactc gtcttgataa 180
tggtgcaacta caccgctgcg aaagctggga aaacgccaat aaccaggcgc aaattgccgc 240
tgccgcaatg ttagggctac cgctaccgct actgccgccg ccgtggttct ggagcgatca 300
gtacagtgat aacttacagt ttattggcga tatgctgggc gatgactggc tttgtcgtgg 360
caaccgggaa actcagaagg cgatttggtt taatctgcaa aacggcgtgc ttatcggtgc 420
ggtcacgctg aatcaggggc gtgagattcg cccaattcgc aaatggatcc agagcggcaa 480
aacgtttgat gcgaaactgc tgatagatga gaacatcgcg cttaaatacac tgtaaccagg 540
ataattagcg aatatctcaa tgccctggggc gtggcgagggt gcaagagtgt gtattacgtt 600
taaatacacat tatcttgcaa agggawtggg ctgctcgcca tatcgtcaat cgtatcaatg 660
cgttcaaacc gactgccgat cgcccgtttg tactgggccc gccgactggc ggcacgccga 720
tgaccaccta taaagcgtaa gtcgaaatgc ataaagcagg ccagggtcagc ttaagcacg 780
ttgtcacctt caacatggac gaatatgtcg gtctgccgaa agagcatccg gaaagctact 840
acagctttat gcaccgtaat ttcttcgatc acgttgatat tccagcagaa aacatcaacc 900
ttctcaacgg caacgccccg gatatcgacg ccgagtgccg ccagtatgaa raaaaaatcc 960
gttcttacgg aaaaattcat ctgtttatgg gcggtgtakg taacgacggc catattgcat 1020
ttaacgaacc ggcgtcttct ctggcttctc gtactcgtat caaaacctg actcatgnac 1080
actcgcgtcg caaactctcg tttctttgat aacgatgtta atcagggtgcc aaaatatgcc 1140
ctgactgtcg gtgttggtac actgctggat gccgaagaag tgatgattct ggtgctgggt 1200
agccagaaaag cactgg                                     1216

```

<210> 638

<211> 557

<212> DNA

<213> Homo sapiens

<400> 638

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ggggattctg ttcataatcc tggatggtgc ctttgacctt tgtgtcactt cagtgtcaaa 60
aggaggattt gaaagggaag aaacggcaac atttgcaact ctgtacaggc tgagaaatat 120
cctatttgaa agaaatagaa gagtgatgga tgtcatttct cgttcacagc tttacttgga 180
tgatcttttt tctgactact atgacaaacc tctcagcatg actgataatt cactcaaaga 240
agggacccat atccgagtta acttacttaa tcacaacatt cccaaagggc cttgcatact 300
ctgtggaatg gggaacttca aaaggagac agtttatggg tgctttcagt gttctgttga 360
tggtcagaag tatgtgagac ttcatgcagt tccttgtttt gatatttggc acaagaggat 420
gaaaataaat gaaaaatgaa tacaccgtgt tggtgtttta ggtgcagttg tgccacaaac 480
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aaaaaaaaaa aaaaaaaa                                     557

```

441

<210> 639
<211> 1269
<212> DNA
<213> Homo sapiens

<400> 639
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tgtctatctc ttgaccttgt gatccacccg cctcagcctc ccagagtgtt gggattacag 120
gtgcgagcca ctgcgcctgg ctggttttca tgaatcttga tagacatcta taacgttatt 180
attttcagtgt gtgtgcagca tttttgcttc atgagtatga cctagggtata gagatctgat 240
aacttgaatt cagaatatta agaaaatgaa gtaactgatt ttctaaaaaa aaaaaaaaaa 300
aaaatttcta cattataact cacagcattg ttccattgca ggttttgcaa tgtttggggg 360
taaagacagt agaaatatta ttcagtaaac aataatgtgt gaacttttaa gatggataat 420
agggcatgga ctgagtgtgt ctatcttgaa atgtgcacag gtacacttac cttttttttt 480
ttttttttta agtttttccc attcaggaaa acaacattgt gatctgtact acaggaacca 540
aatgtcatgc gtcatacatg tgggtataaa gtacataaaa tatatctaac tattcataat 600
gtgggggtggg taatactgtc tgtgaaataa tgtaagaagc ttttactta aaaaaaatgc 660
attactttca cttaacacta gacaccaggt cgaaaatttt caagggtata gtacttattt 720
caacaattct tagagatgtt agctagtgtt gaagctaaaa atagctttat ttatgctgaa 780
ttgtgatttt tttatgcca awttttttta gttctaatac ttgatgatag cttggaaata 840
aataattatg ccatggcatt tgacagttca ttattcctat aagaattaaa ttgagtttag 900
agagaatggg ggtgttgagc tgattattaa cagttactga aatcaaatat ttatttgtaa 960
cattattcca tttgtatttt aggtttcctt ttacattctt tttatatgca ttctgacatt 1020
acatattttt taagactatg gaaataattt aaagatttaa gctctggtgg atgattatct 1080
gctaagtaag tctgaaaatg taatattttg ataatactgt aatataacctg tcacacaaat 1140
gctttttctaa tgttttaacc ttgagtattg cagttgtctgc tttgtacaga ggttactgca 1200
ataaaggaag tggattcatt aaacctattt aatgtccaaa aaaaaaaaaa aaaaaaaaaa 1260
aaaaaaaaa 1269

<210> 640
<211> 691
<212> DNA
<213> Homo sapiens

<400> 640
gggaatattg taatacagtc cagctagatt ctgggataga ttaccggaaa aggggaacttc 60
ctgctgcagg aaaactctac tacctcacia gtgaagctga tgtggagggt gtcatggata 120
agttgtttga tgagctgggt cagaaacaaa atgatttaac tagaccaagg attctaaaag 180
tgcaaggcag agagctgcgc ctgaataaag cctgtggaac cgttgccgac tgcacatttg 240
aagagctgtg tgagagacca cttggagcca gtgactattt ggaactayca aagaattttg 300
atacaatat tttacgaamc attccgcaat ttactctggc aaacaggact caaggctcga 360
gattcataac tctcatcgat aacttttatg atctcaagggt gcgtataatt tgctctgcgt 420
cgactcctat atcaagctta tttttgcatc aacatcatga cagtgaattg gagcaaagca 480
gaatactgat ggatgawttg gggctkarcc aggattcagc agaaggactc tccatgttta 540
ccggagaaga ggaaatcttt gcatttcagc gcacaatttc ccgactcacg gaaatgcaga 600
ctgaacagta ctggaatgaa ggagacagaa ccaagaagta actgccactt ttgcataaat 660
aaaactctag acaaatgggt aaaaaaaaaa a 691

<210> 641
<211> 604

442

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (528)

<223> n equals a,t,g, or c

<400> 641

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cgcgctcgact tttttttttt caatttcaag gattacgaaa ttcttctgtc ttagttacaa 60
acaaaatgca gctatgaagc actgggaagt aaatgcaaaa tatagaaaga atcttcatga 120
ttctcccaaa ctgtaagcac agctcacaaa gtctcattgc tttagaatgt tttctggatg 180
aacaagttac cagctgcaaa ccgacttcag aagtgaggaa aatgttttct catgtttcat 240
gtagctgtca aattttcaaa aatcctccat cttcaatca cccagtgggg aaaatgtggt 300
ataaaacact gccccctgga gtattctggg aggaatgtct taaaaaaaaa aaaaaaacag 360
carggagaaa gtactttcaa attctttact aaccactaac agaatttcta agaagcaaaa 420
gaaaaccaca gaaaggaaat gtacatgaat aaagttgagc aggatgtgta caactttaaa 480
ctgtattgta ttcattgtgc taaacaatat tggccttctc gatgattnta ttcattgtgc 540
tccaaagtta accctgtaga actaagtagg tgaagagata ttttgtataa gtgccacaga 600
agag                                                    604
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<210> 642

<211> 961

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (923)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (947)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (953)

<223> n equals a,t,g, or c

443

<220>
 <221> misc feature
 <222> (954)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (960)
 <223> n equals a,t,g, or c

<400> 642
 tagatagaac agatgttttg tgtgaaatnt nntatcttta acttaatwaa ccagcaggaa 60
 ctgtatgaac acaacacacc caactgacaa acagagagaa ctaacatgtt tatttagctg 120
 tatgtatata tgcttaacta cacccgagga agctgtagag ttagaaaaac atgaaccatt 180
 aacagatgtg gcctccctgc agaactttta ctttgaaaaa gaagtacgtc tgaaccagat 240
 tcacatgttt gatatttgga tgcagagaaa atggggcaga aagcatcgca acagttggct 300
 ctgaaggaca gcaaagaggt gcccgtcgtc tgtgaggtgg tcagtgaagc tatagtccat 360
 gcagctcaga aactgaagga gtaccttgga tttgaatatc ctccaagtaa actctgcca 420
 gctgcaata ctctgaatga gatcttctta atccatttca tcactttctg ccaagaaaag 480
 ggagttgatg agtggctgac caccaccaag atgaccaagc accaagcctt cctgtttggg 540
 gcagactgga tttggacctt ttggggatcy gacaagcaaa taaagcttca gctcgagta 600
 cagactctgc agatgtcttc acctcctcct gtggaatcta agccttgtga cctttccaat 660
 ccagaatcaa rggtaragga rtcttcctgg aagaaaagta gatttgataa gctggaagaa 720
 ttctgtaact taataggaga ggattgcctg ggtctgttta tcatctttgg tatgccagga 780
 aagcctaaag acatcagggg agttgtcctg gacagtgtca aaagtcagat ggtgaggagc 840
 catctgccag gagggaaggc tgtggctcas tttgtcctgg aaactgaaga ttgtgtgttc 900
 atcaaaagac tgctcaaaat tgnctgagta agaaagacgg gctggnanaga agnnggcaan 960
 g 961

<210> 643
 <211> 425
 <212> DNA
 <213> Homo sapiens

<400> 643
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 ttaatcaatg gaaggggaat aagcaaaactg agttttctta caccttttga gtatagtgtt 120
 tttgccatca tagatgtggc tcctcataat tctccaactt ttatattaaa aaacccaaaac 180
 ctcaaaaatt gtagttcatg tcagtcagtg atgactcatc ttagaaktat tttgtttttg 240
 gatgtgtgaa tgtgcatagt tcttaaagtc caacattcat gtaataagac atcttgcata 300
 taacaatgac ccttacgtct aagatgttaa atagatccta agcctgggtat aactttattc 360
 aagtatcctt atttgccccct aaaatgtctt taatacacat tacttgggtt atytcttgaa 420
 tgaac 425

<210> 644
 <211> 419
 <212> DNA
 <213> Homo sapiens

<400> 644
 ggtttcaatg ttttgtctgt gtctctctga ttatttttgc tgttgattgg ccagttgtta 60

444

attctgtctt tgtgagttgt ctttttctca gtacttggcc tatttgtctt tgatttgaaa 120
aagctcttta tgttgtagtc attttaattc ctgtcatatg ttttgtaaac aatttttcga 180
gttcataatt tttcaatctt gtttgtatta tattttgcca cacaaaaatt ttaaatttgt 240
atagtcaaat ttatcagtc ttttccttat gttggacctt ctaatctcaa ggtactaaat 300
ataatctagc atttttttaa acattaaaaa tttttaatcc atctataatt tatttttagga 360
tagggagtgga ggcaggggaa ggtatctttt taaataaaaa tcgttgctaa aaaaaaaaaa 419

<210> 645
<211> 655
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<400> 645
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atcaaaatta ttttgtggga aatcatcaat ctattttatt aatgttatgt gtttaatttt 120
ggacttattht tgggaaaaaac tgttcaaat gggtcctttt aagcttattht taagcagcct 180
agaaggaaga agctacttag ctaatgaaag ctgagacact ttaataaaaag caggatctta 240
agagcattgt ttttccttaa aaactttata ctctcagata atctgcaaca acaaaaatta 300
agaaatccct gacttttcta gaattccac tgtcaaatc tctactgactt atgagtgtga 360
gagaagttat cttttgtttg aattctgata gaacagttta actcctttct aaggatataa 420
aaaattcatt ggaaagtgtg tataattcaa agactctcaa ttatctggac tgaaggcact 480
gttctcacta tggccagatg aatgggagta ttctgtacat gaatcatgct gtatttttaa 540
tcaggacatc acttaagtat taatgtttgt tgtacagatt tttgttttgg gatttttttt 600
gcctaaataa atgttataaa ttttatgtaa aaaaaaaaaa aaaaaaaaaa aaaaaa 655

<210> 646
<211> 458
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (371)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (427)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (428)
<223> n equals a,t,g, or c

<400> 646

445

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gccctctctt ccaatatcca tgtctcatatc actatggctt actgttgaaa tccaactggg 60
aagaagataa ttcttttgagc aagcaatggg agattcaggg tcctacagaa acagcattga 120
tcatactgtg gttcttcgag agaagctgcc catccgcagt aatatcttcc ctctgatgct 180
ggaaactgtc gacggccatc cacttattaa tggacccata actaaggaaa catcacctgt 240
ccaagttcaa attggaaacc atgttgaaga gctccagttt gacattattc atgcaccacg 300
ataccctctg attattggaa tccattgggt tgagacacat gaccaaacad araattggart 360
acccgcactg ngtcctttct atcacgttat ttgtcactac aattgcttca ggcacagggtg 420
ggaatannaa gaaatccgtg atgaaataat tttctggg 458

```

<210> 647

<211> 285

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (153)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (162)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (236)

<223> n equals a,t,g, or c

<400> 647

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aaggctgaca caggagcaat caagaaccca ggagacgggtg gttgcagtga gctgagatcg 60
cgccattgcc ctccagcctg ggcaacaagg gtgaaactct gtctcaaaaa acaaacaaac 120
aatgcathtt aactattcct gtgtaacaaa ttntaaaggg angctgtaaa gtaaagggtt 180
ttcttatcca aacagattgc tcttcttgaa aacagcagcc tgygggttatg tcaganatgc 240
aaacactgct gaaggctaca gagagaagct ggtaactggc tgccg 285

```

<210> 648

<211> 1872

<212> DNA

<213> Homo sapiens

<400> 648

```

aattccgatt ttatgccagt tgcaccagca tgcagaatat ttgtaatgca tttcaaagtg 60
gatataatgg caccctttgt cagaatcaca aagctcactg cggcactgct acaagaggac 120
actgaggaaa atctggccct atgaacctag tcaaccccaa gcaaaaagaa tgactatgtg 180
tgtgagtgca gcacatggcc agttcgtttc tcaactgttt ggaaagccct gtgtgccaaa 240
ccaaggacgt gtctttcagg gaaagggttaa ttttccgaag tttattaaaa tagaacttgg 300
aaaaccaagc attttgaatt tattccagtc ctctgggcat cattcctatt tcttctgcca 360
tgtcaaggag aaattccaag cctgcattct gtcagtctaa aataaccagc ccatacttct 420
cgggtgacct ctgttgaaag tacctgagcc tgcaaagtga aaaatgattg tatctgaatt 480
tgcactaatg gtgtctgaga gcaaaaagag tgtgacctct attggaaacc tttgttcaaa 540

```

446

```

ttcaataatt cagagatgct acatacttct gcaagcttcc tgattatggt cactgtaata 600
ttaatgacct aagtttgaat gtatttcctt acagtccatt aatttgacat ccatctttta 660
cctgggggatt attacaattg caataagtca ttaatgtttt cttcacacag cttcttaaac 720
caagtttctc tgcagctctt tcggttctgc ttacagtgtg tgggaaatct gatttttttc 780
ccctagtaat agtttgataa gaaatttagt gtattgactg cctcagtgc acaatttatc 840
tttaaagggtg tggaagctgg tggggaccaa atgttacctg tgtttttgct gttgattgct 900
attttcagaa gcaaaccatg tttttcactt acagtaggag tcaacaaatt tgggatttta 960
gaagggggag gagggagcta tttgtgtaag actgctgtca tatttgacta catattaaaa 1020
acagtaaatg agcattttgt ttttaatttct taaatacctt gtctttcaac atacgttttg 1080
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ggaataagtc aaggtacytc agttcagctc ttgcctctgt cactaatctt gctttatgaa 1440
ctcctttgat tttctgaata agttccagaa ggttctctat tattctgtcc ttcttccaaa 1500
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tggaatgtgt aaagcaagat gtctccaatt ctgaatatcc cttccccttt tcccaatcct 1620
ccactcttgg actaccttta taacaacacc gagtacgcac agacctgaac ccatgcccaa 1680
gaagcacaca caatgactgg agctgtcggg aattcctgtc agtggcattc cctgagcact 1740
ggctctgtac aactcaatta taatttttta agaatcatac ctctgtatag atcttttgga 1800
ctgtactgat taaactttga tattgtggag taaattcaga agtgcaattt taaaaaaaaa 1860
aaaaaaaaaa aa 1872

```

<210> 649

<211> 840

<212> DNA

<213> Homo sapiens

<400> 649

```

aattggaagg gaccttaaag ccctctaaga aagagttggt tagtagcagc tagaagccag 60
gtcttccaaa tcacagtcct aaatgatgaa tgttgaatga tgcactatgt ttttgtttaa 120
atgagatttc ctgaaaatag ttaatttcag aattaaggga aattgatgtc gctatcatga 180
ggcatcataa aaatatgtat tttaacaagg gaaggcattt caagtagata tagttcttga 240
tgaagcagga agaacatgga tctgggattt ggaagacctg gcttctagct gctactaacc 300
aactctgtga ctctgggaaa gggggactca gttcttactt ctgtaacatg aggacaccgg 360
actatttgaa ttcagaactt agaaaattgg aagggacctt aaagccctct aagaaagagt 420
tcgggaatgt tctccattgc tgtcagtttt cctccaaaaa taacctggct tgggaagttat 480
tggtccagtg ggaatttgat tccccataga aactggagaa aaggtaatgc aagtagagag 540
gaacagctgt atttctgctt gagtaataaa cccactaaca gattctggta cgaattgtgg 600
agacataaag agaatgagtg tatgtactct aagtgtacca gtttcttcac tctctcctgg 660
cagaagatgc aacactttta gtgattctgg gattctggga tgtgttcta ttaattctaa 720
tacagatgaa gaagatgtgg tagaggaaaa gatggttagca gaaggagtga ataaagaggc 780
aaaacagccc gctaaaaaga aaagaaagaa gggtttgcca attaagggga aaaggcgtcg 840

```

<210> 650

<211> 823

<212> DNA

<213> Homo sapiens

<220>

447

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (192)

<223> n equals a,t,g, or c

<400> 650

```

cggnttttggga gcatataccc aactttttctc tggatgatat ggtaaagctc gtagaagtcc 60
ccaacgatgg agggcctctg ggaatccatg tagtgccctt cagtgtcga ggcggcagaa 120
ccctgggggtt attagtaaaa cgattggaga aaggtggtaa agctgaacat gaaaatcttt 180
ttcgtgagaa tnattgcatt gtcaggatta atgatggcga ctttcgaaat agaagatttg 240
aacaagcaca acatatgttt cgccaagcca tgcgtacacc catcatttgg ttccatgtgg 300
ttcctgcagc aaataaagag cagtatgaac aactatccca aagtgagaag aacaattact 360
attcaagccg ttttagccct gacagccagt atattgacaa caggagtgtg aacagtgcag 420
ggcttcacac ggtgcagaga gcaccccgac tgaaccaccc gcctgagcag atagactctc 480
actcaagact acctcatagc gcacaccctt cgggaaaacc accatccgct ccagcctcgg 540
cacctcagaa tgtatttagt acgactgtaa gcagtggtta taacacccaa aaaataggca 600
agaggcttaa tatccagctt aagaaaggta cagaaggttt gggattcagc atcacttcca 660
gagatgtaac aataggtggc tcagctccaa tctatgtgaa aaacattctc ccccgggggg 720
cggccattca ggatggccga cttaaggcag gagacagact tatagaggta aatggagtag 780
gttttagtggg caaatcccaa gaggaagttg tttcgtgtt gag 823

```

<210> 651

<211> 541

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (66)

<223> n equals a,t,g, or c

<400> 651

```

ggcacgnngg gagggccagg gagaacgggg aagggacatt tagtttgaga cgggtgctgag 60
ataggntcat gaaggaagag gtgaaggga ttcctgtaag agtggcgctg cgttgtcgcc 120
ctctggtccc caaagagatt agcgagggct gccagatgtg cctttccttc gtgcccggag 180
agcctcaggt ggtggttggg acagataaat ccttcaccta cgattttgta tttgatecct 240
ctactgaaca ggaagaagtc ttcaatacag cagttagcgc actcataaaa ggtgtattta 300

```

448

```

aaggatataa tgcaacgggtc ctggcctatg ggcagactgg ctctggaaaa acctattcaa 360
tgggaggtgc atatactgca gagcaagaga atgaaccaac agttgggggtt attcctaggg 420
taatacaact gctcttcaaa gaaattgata aaaagagtga ctttgaattt actctgaaag 480
tgtcttactt agagatttac aatgaagaaa ttttggatct tctatgcccc tctcgtgaga 540
a                                                                 541

```

<210> 652
 <211> 1655
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1378)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1444)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1521)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1606)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1648)
 <223> n equals a,t,g, or c

```

<400> 652
agtctggagc cggcgcgtag gagecgggcgg ccgggctgtg cccctctccta ctccctcaccg 60
cgcgmgcggg gaaccagtar ccgcggctgc ttcggttgcc ggggtcggtg gtcgttatgg 120
attctccatg ggacgagttg gctctggcct tctcccgcac gtccatgttt ccccttttttg 180
acatcgcgca ctatctagtg tcagtgatgg cggtgaaacg tcagccggga gcagctgcat 240
tggcatggaa gaatcctatt tcaagctggt ttactgctat gctccactgt tttgggtggag 300
gaattttatc ctgtctactg cttgcagagc ctccattgaa gtttctttgca aaccacacta 360
acatattact ggcattcttca atctggtata ttacattttt ttgcccgcac gacctagtgtt 420
cccagggtcta ttcatatcta cctgttcaac tactggcttc gggaatgaag gaagtgaacca 480
gaacttggaa aatagtaggt ggagtcacac atgctaatag ctattacaaa aatggctgga 540
tagtcatgat agctattgga tgggcccggag gtgcaggtgg taccattata acgaattttg 600
agaggttggt aaaaggagat tggaaaccag aagggtgatga atggctgaag atgtcatacc 660
ctgccaaggt aaccctgctg gggtcagtta tcttcacatt ccagsacacc cagsatctgg 720
caatatcaaa gcataatctt atgttccttt ataccatctt tattgtggcc acaaagataa 780
ccatgatgac tacacagact tctactatga catttgctcc ttttgaggat acattgagtt 840

```

449

```

ggatgctatt tggctggcag cagccgtttt catcatgtga gaagaaaagt gaagcaaagt 900
caccttccaa tggcggttggg tcattggcct caaagccggg agatgttgcc tcagataatg 960
ttaaaaagaa acatactaag aagaatgaat aaattttacgt gatgagctct acaaggccaa 1020
aaattttttt tcttatctac ctgtttatatt gtgctaattt tctatgtatg tgatgtgaaa 1080
tgaagactat atatatggaa tggaggtgac agaaagaaag aaattccttg tttgagggag 1140
acttccccct tctggattgt atttgtagag tgttacgagt gtatcatgtg attatgcttt 1200
accggtataa gagattctgt tgtgattatt tgaatagttt tatattaata aaagaagacm 1260
aaatttttta aatgttagaa aaagcagatc tgtcattgca aagtaacaaa aattttaagc 1320
ttttaaaaaa gtaagatttt tcgtattttt aaaatttgaa tctattttga gctttagntc 1380
agcagaatta aattttttact tgacattatc attaaaattg ctaggtatgg agaacaattc 1440
ctgnttttatt ttgaacactg agaaagaggt aaacttttcc taaaacactt tatattataa 1500
accgaaaaat aaattgctag nttatatatt aagatattaa catcataatt ttttaataata 1560
cctacatcaa atgggaaaaa atctgaaatt tttttttcat tagcanggat ttttctacta 1620
gaaagtagtt taactacttt cattttanaa ccaga 1655

```

<210> 653

<211> 1160

<212> DNA

<213> Homo sapiens

<400> 653

```

tggcgctagt ctgaccctcc gccaggcaaa aggaagattg tctttggcta tagagttttt 60
tttttaaaaga ttactaaaca tacaggaagt gataagaagt atcattcacc agaagcatca 120
ttcatcaatc aacttgaaga aaaaggtgat atattatttc ttttaaggtgc tgtgtgatgt 180
gttaagagca tattagaagg aatggttttg tctaattttc ttcattgagt atggtggctg 240
agacatcgag tctatatattt gggggcaaaaa ctaaaccggca gcacaaaagg aaatctatat 300
taatagaata ttttgttgaa caaaggaggt tagataagaa ctgcaaacca acagactcag 360
caaacaagga aagaaacgtg ttagccataa gacatgtttc aagtgaatcg aagtccaata 420
actgtagact tcagaagaaa aaagttttca aaaattttat caaaacaggt cactgataaa 480
taactcctcc agtaatatag ctaggcctga aaccaraatt aattaaaaaa ttaacaaaac 540
agattgaacc tgaattaaat ttcttttgat aaaaaaactt attaaaaata atcaaaattt 600
tctcctcaatt tttattacct tgtccaaagt aaagcaagtg tcttttagca ttcatgccag 660
ctttttctcat gktctaggaa tgacagaaaac cttacttgaa gcaaactagt atttttgttg 720
aaaatgkata tcagcatcag ttaaagttga tttttcagac ctgctcctca gtaataatac 780
tagctagtca gcattcacgc ctaccaggac acaaaaatcc tcttcaaaac tactcagaaa 840
agaaagtcac tactcaggaa tgatgtccat tcaggagaaa tcaaaagaga attcctccaa 900
agttactaaa aaaagtgcgc ataagaattc agaaacagaa attcaggatt ctcaaaagaa 960
tctagcaaaa aatcaggtcc aaaggagact ataaaatcac aggctaaatc ttccagtga 1020
agtaaaataa atcagccaga attggaaaca cgcattgagta caaggtcatc aaaggcagca 1080
tctaatgata aagctactaa atccattaat aaaaatacgg tgactgtgag gggatattca 1140
caagaatcta caaaaaaaaaa 1160

```

<210> 654

<211> 836

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (538)

<223> n equals a,t,g, or c

450

<400> 654

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gaaggcctga gagacggcag actgagcaga attccttttt tgagcacgag agcattacta 60
gaaccattgt caaagcagtg gcaagggacg gagaggtccc aacaggagtc aggaagaggt 120
ttgattataa ccaagaaaac tcactatgct aggaatagac tgtgtgcacc agtcccagac 180
acttggcaga agtgtagcag cgttacacat gtgtgcgaas agatcgcagg ttccacgcca 240
tctgcatggc ctgcaggagc ttctgctgct gaccccatgc tgagtggcca gtggggagcg 300
gcgcccggca ggctcttctg gggctcgtctg tcctatccgt ggattgtata tactcttctc 360
tgtaaggag tttttcccaa gaagaaaagt atttaaaaga aataccagtg agtgccctaa 420
agttggagaa gtaactgccc atgcccagaa ataaggatgc cagtgccag aagcagtgag 480
attagtctgt gtccacaagc agaggccccc tcgatgggag ggagtggcag gcaggagnaa 540
ggtggcgctg ccagggtgcc ggggtctattg gaggcgcccc atctcagact tcctaacaca 600
gcctgtgtgg aaggcagaac aaagaatgca tgcccagtc gaaatctgkt ctattctgct 660
ccaggaaaat cggaaacctg tgagtcagag tcagagaaac ttaccaagc aacgtaattc 720
ctgttttcat gggctctgta gatgtttgag tcaggaggta aggcggggag ttactaataa 780
actctgcctt ttaaattgag catcttggcc gggcatgggt gctcacgcct gtaccc 836
```

<210> 655

<211> 1188

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1158)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1162)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1175)

<223> n equals a,t,g, or c

<400> 655

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actatatctg gcctttataa acttttttga ttcttgtcat aacacttagc ctaaaatgca 60
aatgtacagc tgtagaaaaa tactttatct ctttatatcc ttattctaga agcttttttt 120
ctattaatct ttgtttgttt gkttttgttt actatttact tctaaaactt ttttgtaaa 180
aaccatggca caaacacaca cattatgcta ggcatacaaa aggtcaggat catcagtctc 240
actgtcttcc acccccactt ctcacccac cattgtatct gctgtctgtg gctgaccaa 300
acatcatcat gtagcacatg actagtgtgg caagtgtct gttagatgta aggccatgat 360
gctaaagcat cacaagaggg catctaacc agattgggga tgtcatggaa ggccgacatc 420
ctgagttgaa tcctgcaaat gtaaaaaacca ataggcaaag aagaggaaca aaaaggattc 480
caggacaaac tgaggtcaca tctatgatcc ttgactttat tgtgtctgtt taaagtatct 540
acagtaacct gtatcaactt agtcagtgt ttaatactaa atttagctcc ttcaaagcag 600
ttggaactat gtgctacata aatttcagct tcacacaagg aagggaagga gtgaaattag 660
tgaacaggca gttacagcaa aagaaaaaac ataaaaattg aatagctggc tctggtgaaa 720
tgagcaagga ctttagagtc aaactggcct ggatttgaat cctgacctc attgcttgta 780
```

451

```

gctgtatgat ctggacaaat gacagtaact gtttctaacc ttgattttct catctgtaag 840
atgccaatg taactcctaa ggatactgag gattttttta aatgcgtgta cagttcctga 900
ccagtgggtt gtgcctaata acttattaca aattattacc cagtaaaaac cttgagacaa 960
gagtgaanaac gtaaagctaa ttaatccatt acttgtagc aagcaaaacta cgtgcttgag 1020
aaaattactc aactttcatg ttttacttcc agacagtagt ttgattaaaa gaaaaaaaaa 1080
aatccagcc caagcatggg ggcttacacc ctggcacttg gaaggcccaa ggtgggaacc 1140
ataagcttgg agccctanca anttttgaaa actanccctg ggggcaac 1188

```

```

<210> 656
<211> 1132
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (256)
<223> n equals a,t,g, or c

```

```

<400> 656
gacgcgtccg ccgcctccgg aactaaacgg ggtgaggcca cattcgggta tctctaacgt 60
tggaanaacga tggagctaac acccattatg gagattaacc acttttcac aggtttttta 120
cttaagtcgt gaggaatata acgggtgaaca caagattcat tttattttca tcaccatggg 180
acgtatcctg ttgttgagtt ctctgggtca gacctctgaa gacttctcag atggatccta 240
gtctctgggc ttgccttgaa attactcgtt gctcagggag agagttgaaa tgggtggcat 300
cctcccactc tgttgctccg gctgtgtccc ctgcgtctgt tgttccagct atgtcccctc 360
tgttgctcca actgcagctc attctgttag agttcctcat tcagctgggc actgtggcca 420
gaggggtgtt gcctgtctcc ttcctcaagt attcttaaag ccattggatt ttgtggagca 480
tttttcttcc tggctctccc ttgagttatt ttcctttctt cgctatcttg ggactcttct 540
ttgtgcttgc ggwcacgggt tgagagaagg acttcttctt ccttgtctcc ttgggtgttg 600
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agtcagtcct tctcaagggg ctacagttgc agcattctta ccagaggcca ttgggccttg 720
agttccagtt ccagtgtctg gagagtcac ctacagtcag caatctcatg ccggttggca 780
attgtcagca gaagccgatg cctgcccac agttctttac tctgaggtgt tagagtggaa 840
taaaaatata aatacttata ctagttttca tgacttctgc ttaatatagg gtattttttt 900
gttttgtttt gttttggcgg tgataggctt accttacatt aaaccaggcc ttagcctttc 960
tgttgctttt ttatgcaaa cctcatatta ctctctagtc tgggttcagca ggacagtcag 1020
gtccacacct ggggtgttt gttttctacg tttacctcaa cataaggtag cttatcattg 1080
tcagccttca tctcctgac caaaaataaaa taaaatgcca caggttactt ga 1132

```

```

<210> 657
<211> 566
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (283)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature

```

452

<222> (461)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (483)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (495)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (519)

<223> n equals a,t,g, or c

<400> 657

```

aaaaaaaaa caaaaaaaaaaaa aaaactactt ctaattagct caatattaat attttaacaa 60
gttgggttgg taacagtata tctttgssca tgctggcaaa ttcttgtttt gtcagcattt 120
tccataaetc tggccaaagt gtcacctgat gtggcaacgt ttacagttct tgctattgtt 180
tcttgagtcc tttaatctat aagatgtatt tttaaaaata tataacatat aaattttgtt 240
tcgttatagc tctttaaaaa aaaaaaaaaa aagggcgggc cgntctagag gatccaagct 300
tacgtacgcg tgcattgcgac gtcattagtc ttctatagtg tcacctaaat tcaattcact 360
ggccgtcgtt ttacaaccgt cgtgactggg aaaaccctgg cgttacccaa cttaatcgcc 420
ttgcagcaca tccccctttc gcagctggcg taatagcgaa naagcccgcg ccgatcgccc 480
ttnccaacag ttgencagcc tgattgggga atggggacnc gccctgtatc ggcgcattaa 540
gcgcggcggg ttgcggtggt ttgcgc 566

```

<210> 658

<211> 1178

<212> DNA

<213> Homo sapiens

<400> 658

```

atccagcggg tgagtctggt gaggagtctt tgcgagagcg aggagcagcg gttactggaa 60
caggtgcatg gcraagagga gcgggccccc cagagcatcc tgacacagcg ggtgcaactg 120
gccgaggcgc tgcagaarct tgacaccatc cgcactggcc tgggtgggcat gcttactcac 180
ctggatgacc tccagctgat tcagaaggag caagagattt tcgagaggac cgaagaagca 240
gagggcattt tggatcccca ggagtcggaa atgttaaact ttaatgagaa gtgcactcgg 300
agcccactac tgacccaact ctgggcaacg gcggttcttg ggtctctctc aggcacagag 360
gacatacgga tcgatgagag gacagtcagc cccttctctg aattgtcaga tgatcgaaag 420
acctgacct tcagcaccaa gaagtcaaa gacctgtgcag atggcccagg gcgcttcgac 480
cactggccca atgcccctggc tgccacctcc ttccagaatg ggctccatgc ctggatggtg 540
aatgtccaga acagttgtgc ctataagggt ggctgggctt caggccacct gccccgcaag 600
gkttctggca gtgactgccg tctgggccac aatgccttct cctgggtctt ctctcgctat 660
gatcaggagt ttctgtttctc acacaatggg cagcacgagc ccctggggct gctgcggggc 720
ccarcccarc tgggtgtagt gctggacttg caggttcagg agctgtctct ctatgagcca 780
gctccggca cagtgtctctg tgcccatcat gtgtccttcc cggggccccc cttcccagtc 840
tttgctgtgg ccgatcagac catttctatc gtccgctgac ctctggccac aggaagccag 900

```

453

```
gtccaccgcc caccaccctt tcaggccatg tttctactca gtgtgctttt cccaaatgat 960
gtgtgtggtg tttctaagag aaacagggcc cataaccagt gggcagcttt aggagggatg 1020
gggatctgtt tcagatctag gcataacctg taaatcacag gtgtccaaac ttttggcttc 1080
cctggggccac atttgaagaa gaattttctt gggccacata aaatacacta acgatagctg 1140
atgagctaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 1178
```

```
<210> 659
<211> 924
<212> DNA
<213> Homo sapiens
```

```
<400> 659
gctatagtct gtkaaatgtg cagtagcggt gtgtcttaaa aaatgtgcat actttaaaaa 60
tgctttattt aaaaaaaatt ctctgatca tcttgagcct tcagggagtc atgatctttt 120
tgctggtgga gggctcctgcc tctatcttga tggctgctga ctgagcagag tgggtggttgc 180
tgaaggtycg ggtaketgta gcaatttctt aaaataagac agtaataaag ttgccacatc 240
aatgggactc ttcttttcac aaaagatttt tctggaagca tgggatgctg tttgataagc 300
attttaccca cagtagaact tctttcaaaa ttggagtcag tcctctcaca ccttgccact 360
gttgactat gtttatcaat attctaaatc ctttgttgta ggctaaacaa tattcacagc 420
attttcacca ggagtaaatt tcatctcaca aaaccacttt ccaggctctt tctggactgt 480
agagttcttt ccaggctacc ttgtggcagt ttaagagtct ggcatcattt tccgctggga 540
cctaaggatc gaggaggtgc ttgtgactag actgccaatg gacccatcac aaagtttaac 600
ccaaccttga tccccgagtc ttcacaaatg ctactgaag aaaattccta gaacaattca 660
gggtcctttc ataacctcta ctctgaggyg ttaataaaaa accttagtaa cttaaaaaaa 720
atgagctgta cacaaatact gaacaataat gctacatatg ttaagtatgt aagaaaaata 780
tatactttga cataaataag aaacggtgag ttgataattg gatagaatgg tggatagagt 840
gakagatatg tagtaaagca aatataacaa aatgataatt gtacaatcta agtggttggg 900
ctataaatat gcacttccca caac 924
```

```
<210> 660
<211> 813
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc feature
<222> (791)
<223> n equals a,t,g, or c
```

```
<220>
<221> misc feature
<222> (798)
<223> n equals a,t,g, or c
```

```
<400> 660
aggcagtag catgtgcggg agactcacgt tgccggcgaa gtgggagaga gaaaagtggg 60
ggtgaacaca ctgtggggta gcttcgagat cagcaatgtg agactagccc gggtcatgct 120
gacacagttt gccgaggggc ggctggaaga tcaactggac aaatatgac actgggctga 180
ccgctttgag gacctgcccc tctatttcat gactttccat ggacagcaaa gcatcaggac 240
tgtaatagat acaatgcaac atgcagtcta cgtctatgac atttgtcatg tgatcatcga 300
caacctgcag ttcatgatgg gtcacgagca gctgtccaca gacaggatcg cagctcaaga 360
```

454

```

ctacatcatc ggggtctttc ggaagtttgc aacagacaat aactgccatg tgacactggt 420
cattcacccc cggaaagagg atgatgacaa ggaactgcag acagcgtcca tttttggctc 480
agccaaagca agccaggaag cagacaatgt tctgatcctg caggacagga agctggtaac 540
cgggccaggg aaacgggtatc tgcaggtgtc caagaaccgc tttgatggag atgtaggtgt 600
cttcccgcctt gagttcaaca agaactccct cacccttctc attccaccaa agaacaaggc 660
ccggctyaag aagatcaagg atgacactgg accagtggcc aaaaagccct ytttgggcaa 720
aaagggggct acgacacaga actytgagat tkgytcaggc caggccccma ctcccgacca 780
gcagacacct ncaagcgntc aaagtgaagg ccg 813

```

```

<210> 661
<211> 1718
<212> DNA
<213> Homo sapiens

```

```

<400> 661
ggcggggcat cgcaggcgcc ctctcggggc ctcccggccg ggggcgcca cggggagagc 60
ccggggggcg gcgccccctt tccgggcagc agcggtctct ccgccctgct gcaggcggag 120
gtgctggatc tggacgagga cgaggacgac ctggaggtgt tcagcaagga tgcctcattg 180
atggacatga actccttcag ccctatgatg ccaacatccc ctttatcaat gataaaccaa 240
atcaagtttg aggatgaacc agatttaaag gatctcttca tcacagttga tgaacctgaa 300
agtcatgtta ctacaataga aactttcatt acgtatagga ttattactaa gacatctcgt 360
ggggaatttg actccagtga atttgaagtt aggagacgat atcaagattt cctttggttg 420
aagggaaaac tggagaagc acacccact ctgattattc caccattgcc agaaaagttt 480
atagtaaaag gaatggtgga acgctttaac gatgacttca ttgagacacg caggaaggct 540
ttacataaat ttttgaaccg aattgctgat catccaactt taacatttaa tgaagacttc 600
aaaatttttc tcaactgcaca agcttgggaa ctctcttctc acaagaagca aggtcctggc 660
ttgctaagca ggatggggca aaccgtcaga gctgttgcgt cctcaatgag aggagttaa 720
aaccgcccag aggagttcac ggaaatgaat aactttattg aactatttag ccagaaaata 780
aatttgatag ataaaatatc tcagagaatt tataaggaag aaagggaata ttttgatgaa 840
atgaaagaat atggcccaat tcatattctg tggtcagcgt cagaagagga tctggttgat 900
actctaaagg atgttgccag ctgcattgac agatgctgta aggccactga aaagcggatg 960
tctggactct cagaggccct gcttctctgt gtacatgagt acgtgcttta tagtgaaatg 1020
ttaatgggtg ttatgaaaag aagagaccaa atacaagcag aactggattc caaagttgaa 1080
gtttttgacct atwaaaaggc agatactgat ctgcttccag aggagattgg aaaacttgaa 1140
gataaagtgg aatgtgctaa taatgccctg aaagcagatt gggagagatg gaaacaaaat 1200
atgcaaaatg atatcaagtt agcatttaca gatatggctg aggagaatat ccattattat 1260
gaacagtgcc ttgctacgtg ggaatcattc cttacatcac agaccaacct tcaactggaa 1320
gaagcctctg aagataaacc ttaatcccat tgaggacttc tgtttgatct ttgggagaca 1380
gcatttatta accaaagtta ttctttcttg atctgccgtg tccttataaa gtggatgaaa 1440
aatgttttgt acccatctgg aaaaccaaca acttgaaatc tcaggtatc caggtcactg 1500
acatgaattt gaagatatat ctatctgtat ggatatatat ctatatgtat atagatatat 1560
aaatacagag agatatctgg cttgggttta attatgttct taaatttggtg tgccaataat 1620
tgcatataga ttttttttct taaatatatt actgtggaac atgccatttt aaatatgttg 1680
taaggactgt ttttaataaaa agtttagtat gaaaaaaa 1718

```

```

<210> 662
<211> 1114
<212> DNA
<213> Homo sapiens

```

```

<400> 662

```

455

```

gcgggcgggcg cgcaggggct ggtacgcgct gggcgggcgag agctcatggc ggaggaagag 60
agcgaccaag agggccgaacg cctcggagaa gagcttgtgg ccattgtgga gtccccgctg 120
ggccctgtgg ggcttagagc tgcggggcgac ggcagaggcg gcgctggcag cggcaactgc 180
ggcgggcgcg tcggaatcag cagtcgggat tactgccgac gcttctgtca ggtggttgaa 240
gattatgctg gaagatggca ggtccctttg ccacagcttc aggttcttca gactgccctt 300
tgttgtttta caacagccag tgcattcatt ccagatgaat gtgagcatgt acaatatgtt 360
ttgartagcc ttgctgtgag tttctttgag ttgctgctgt tctttggaag agatgagttt 420
tatgaagagc ccttaaagga tattcttgga tcattccagg aatgccagaa tcacctccgc 480
agatatggaa atgtgaatct ggaactggtg actcgaatca ttagagatgg tggcccatgg 540
gaagatccag tgttgcaagc tgtccttaaa gtcagccag catctcagga gatagtgaac 600
aaatatttaa gttctgaaaa tccactgttc tttgaactac gtgccagata cctaatkgt 660
tgtgaacgca taccggaagc aatggctctt attaaatctk gtataaatca cccagaaatc 720
agtaaagact tatacttcca tcaagcactc ttcacatgtc tgtttatgtc acctgtagaa 780
gatcagctat tccgggaggt attgtttgag actatTTTTg cctattacca ttttaaccct 840
accaaaaaaa aacaaaaaaa aaaaagtagc cactgttgtg tgttaaattc cttttacagt 900
aatgccaaag atttaaggat tacattatct ggatgtgttt tcttttgga ccataactta 960
aggctcatgt gaattagtca aaatctgata ttaacaaatg atgaaatcaa taaaatatac 1020
tcattaataa gtattattca cattgcactt ttgatgtgat ggagaagagg tcaataaaaa 1080
gtcaacaagc tcacagcttg ccaggagtaa aaaa 1114

```

<210> 663

<211> 341

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (70)

<223> n equals a,t,g, or c

<400> 663

```

gattaaaagg atggctcttc ctaangtaat ttactctttg ttggttttan gaaatctttt 60
gcatgtatan ggtataaaac aacaactgtt tatatgttac ttccattagc cgatgaacta 120
gyggktaaag gatgcttcaa atagaaaata agttaattcc actaatagat tgtgttttca 180
ttaaagtcac aaacatgaaa taacacttta caaagttcat tttgttgagt atcttgcatt 240
actgtgaatt atattgtaaa gtagtttaaa gtttaacatt aaagataaaa ttattatttt 300
tgctgttatg gtatgaataa aaaaatttga ttaactttta a 341

```

<210> 664

<211> 285

<212> DNA

456

<213> Homo sapiens

<400> 664

```
accatggcag tacacaggcc gccgccaatc tgcttaacac caaccagctt gacgcgcgca 60
gctttcacca tcgcgtcaga agcctcaatc agtgcaacca ggccccgggt ttcgatcatt 120
cctaattgctt ccattgtsct ttcctcttta tcaggggtcca gaacgggacc gttcattcaa 180
ccagtgtttg taaactgctt tcgcgggttca ctwctgtctg acgcggcaca gctgccacca 240
gcgccagctc gataatttcc tgcacgctac aaccacgaga gagat 285
```

<210> 665

<211> 631

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (581)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (589)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (608)

<223> n equals a,t,g, or c

<400> 665

```
atgaaaaata acagattata tatagtttga actatttttc gtgtgctttt tttaaacttgt 60
taaaaagaaa tttatataaa atttaaaata caaatgttaa attatccaga aatacagaat 120
agttaatat gctagaacca aataacctct aaaatgtttt ttttttggtta attttgtcat 180
gctaagcaact tttgtatctg cacaattcag taggttaaga atcaatcttc tttttcttaa 240
tagtacagca gacttttagct tcaagtttca taggcttagt acttatatct agacatttgt 300
gtctaaataa gcttttcatt aactttttat ttttaaggaca gtatcttttc atgaaagagt 360
atlttggtga atgtttgcta tatatatgtt acttgaaatg tttaaatttaa tatgcagcat 420
accataggtg tatatatagg tatataattt taagggttaaa atattcagtc tacaagtttg 480
gttccttatt taagcttttg ggctaatact gcataatggca caatgtttta atattggcaa 540
kttcatctca raraagggga tcaratataw ttttaaagtt naaaaaaant tactgaaacc 600
tccccctnaa aagcctacct ttattttaaac c 631
```

<210> 666

<211> 1529

<212> DNA

<213> Homo sapiens

<400> 666

```
aaaatttgct gtaataccaa aactaacctc atcaaagata cagaaaaaaaa gaaatatagt 60
gagccctaaa ggacacatac attgaataaa taattggaac atgtgggttat ctttagatcc 120
acatcttagc tgtcatttgg tcaactotaaa actgatgttc atctttctgt taatttccct 180
```

457

```

ctgcctaaag actacatgac agaaatgacc tatcactact tattatttct gaagcctaac 240
tgcaagactg atttctgaga acaagtaaaag aactggaata cttatttttc atataaaaaat 300
ctaaatgtgt taataaatca ttccatacaa aagtacatta ttaaataacc acattatttaa 360
aataattgca agaaaatgga ccatatttac aatgttttgt aaacttgcta gtgtgtggat 420
atgtacccta cttgtgaaat acatttgaag atataaagag cagccaaaat gatggcaaaa 480
tggtaggcta atattttcta ttattattgg agaacatata atattttgga atcatgcaat 540
tttgcacaca gtgaaacat taattttcca aggtaattcc tttagaatat ggtattggca 600
tgcagtttct tacttatcta gaatatttgg cttatctgaa agatatcaat ttaagatctc 660
tggaagtgtt agaatttttg atccttcaca gtgtcaatat ttaatgaatc actaagcttt 720
atttattaga cgtgttgagt gagtgtgag ttcttctgctg ccacttttgt taccattgtc 780
acacactatg tgtaaaccag tcccaccact tattactaat aaaattttga ctgataattt 840
atatttgcac ttacaatata tatatcctgt ccttatattt ctctagagta cttttccat 900
catgtttaag tgtatttctg ctattatttc ctctcctgca gaatacatac aagtgtatgt 960
gtataaagtc atacatgtac aagcatgcat attgagattg aatcacattt ccatactgtc 1020
tgttatttta ttgggkttta tattgggttt ctttagttta tgttggtttc tcaaaagcag 1080
cattttaaat tacgratact ggacttattg gatttaatta taaatccaat tactactgga 1140
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tgtaacaata actagcctaa agaaacscwa aaaaagtatc tctcccgagc tgaaacttaa 1260
aaattcgtaa gtgtaagaaa gaatgtgaga atatatataa tgcacactgt accattagat 1320
gaaatcttac ttgagaaatt gccataagcc atattacaga tcttactttg ttactgaatc 1380
agattaattt cttgttataa taattttcat cataaatttt ctatttttaa agccgctggg 1440
actagaaata ttcttttaat gctatatcta tgtacctact gacacatttt tctccataaa 1500
agtactttta aaaattactt catgatttg 1529

```

<210> 667

<211> 1020

<212> DNA

<213> Homo sapiens

<400> 667

```

tcgacccacg cgtccttaag tttttcaagt tatecttttc tgaggaaaat tattctagag 60
gaacctaaaa agggacaaaa aaattgaaac ttcttaggag tctaactctg gtgccttctg 120
ttaaaagtca gtgtatcaga aaagaaagca gccatgtaag aggctaactt aartagaagt 180
gctagaaata tctttgtgta ttaacatgca ataaaaggta ccattcaaag cagggggaaa 240
ggtaggaaga agaggtaatt ttactgaaa attagggcaa tgttggtcgc cttttattaa 300
aagctttttt taagctttca taaagattgc tttttgctat ttttgaaaat atggtattat 360
agtttgtatg gtaactggtc atatatgaca gtctactgca tatatatgaa tgactaggat 420
taatctgggtg tgtttacata ggatatacat agttgaaatc tagcatgaaa ggttaaaaaag 480
gagatactgc acaatatattc ttaaaagtaa aatgctgtta ttgtgatgag tctttgggtt 540
aacatcacag tattctgtga tgtcttttta actttttgga aagaggatc atttgtagaa 600
aaaatttgat ttgggttaaa tatagggttt taaaactata aatgttgtct tttttatatt 660
tttatgaaaa agcagtagaa aattactttt gaagaaaaca ggctatttaa atattgaaat 720
atatgtatgt tgtgagttta aggagcctgt aattgtcagt ttacaaaac catctgtgtt 780
caatggttgt aaataaattc tcaaaacatc atttcaaagg ctgcctacag aatattatca 840
cttgacagat agagttaata aattaccaat caggcacatt ttataatgtt tgtctctgta 900
aaggtaatat tagcagttaa agaacacgga tgagaaaaga atgtgttaca taggttgcac 960
cacttgcagt taaataaaac tcacaatttg tgctcacagc aaaaaaaaaa aaaaaaaaaa 1020

```

<210> 668

<211> 810

<212> DNA

458

<213> Homo sapiens

<220>

<221> misc feature

<222> (9)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (793)

<223> n equals a,t,g, or c

<400> 668

```

ggcacaggnc atttttaagt gtttagagtt ttttgggggtt tgggggtgggtt ttttttcctt 60
gttttccttt tttcctttta attggatgca ctgacctggc ccaggaaatg aagagattct 120
cttttgatgc tattaccaat gttatcataa agtgacagtc acctgtaaca aaaaggtggc 180
accagacatg atcactgatg ttttatttgc acatcaatat ttttattttt gtattctggc 240
tcagctgctt ctctgagtgg agttaaggaa tgagccacaa agatttttgt agtaggtata 300
ttggcattgc attttatatt cctctatatt taattttgaa aacctaaaag aaggattgtg 360
catcttgaga gaaagttgag caaattgtga tctagcggaa tgtaatttg tgctgcttct 420
tgtgcacgat agcagcagta gtatctctct tggaaataaa catcccatat tatgatgtct 480
atgaatatag gtttcctttt ctctctctcc tccctccttc cccacacctt ctcttttttt 540
tttctctctc agcttctctt ttctctcttc cctcttccct tccctcttct ttactttttt 600
tgaaatcact tattgtaaat aagttgtaat ccaaacctca tgtatcaatg gggaattttc 660
aaatataaat attaccaatg cattttcttg ktgggtggctg atttttgatt gaagataatg 720
agaatgacat gtctggtgct ttkggttgag gactcgctta gctcataaac tttkggattt 780
tagaattcaw tgnntaaccg ggaaaaggcc 810

```

<210> 669

<211> 2501

<212> DNA

<213> Homo sapiens

<400> 669

```

taaatatgca tatagtagag tgcaaaaata tagcaaaaat aaaaactaaa ggtagaaaag 60
catttttagat atgccttaat ttagaaactg tgccagggtg cctcggaata gatgccaggc 120
agagaccagt gcctgggtgg tgctctctct tgtctgccct catgaagaag ctctccctcac 180
gtgatgtagt gccctcgtag gtgtcatgtg gagttagtggg aacaggcagt actgttgaga 240
ggagagcagt gtgagagttt ttctgtagaa gcagaactgt cagcttgtgc cttgaggctt 300
ccagaacgtg tcagatggag aagtccaagt ttccatgctt caggcaactt agctgtgtac 360
agaagcaatc cagtgtggta ataaaaagca aggattgcct gtataattta ttataaaata 420
aaagggattt taacaaccaa caattcccaa cacctcaaaa gcttggttga ttttttggtg 480
tttgagggtt ttatctgaag gttaaagggc aagtgttttg tatagaagag cagtatgtgt 540
taagaaaaga aaaatatttg ttcgcgtaga gtgcaaatta gaactagaaa gttttatacg 600
attatcattt tgagatgtgt taaagtaggt tttcactgta aaatgtatta gtgtttctgc 660
attgccatag ggcctggtta aaactttctc ttaggtttca ggaagactgt cacatacagt 720
aagctttttt ctttctgact tataatagaa aatgttttga aagtaaaaaa aaaaaaatct 780
aatttggaaa tttgacttgt tagtttctgt gtttgaaatc atggttctag aaatgtagaa 840
atttgttata tcagatactc atctaggctg tgtgaaccag cccaagatga ccaacatccc 900
cacacctcta catctctgtc ccctgtatct ctctctttct accactaaag tgttccctgc 960
taccatcctg gcttgtccac atggtgctct ccatcttctt ccacatcatg gaccacaggt 1020

```

459

```

gtgcctgtct aggcctggcc accactccca acttgacctt gccacattca tctagagatg 1080
gttcctgatg ctgggcacag actgtgctca tggcaccat tagaaatgcc tctagcatct 1140
ttgtatgcat cttgattttt aaaccaagtc attgtacaga gcattcagtt ttggctgtgg 1200
taccaagaga aaaactaatc aagaatataa accacattcc aggctgctgt tttctctcca 1260
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atcagggtac agacttataa ggggtgcatgt tccttaaagg tgcataatta ttcttattcc 1380
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gtatcagatg ttgcttctct tttctctgta cacagattga gagttaccac agtggcctgt 1560
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aagaagaaga aagaaagaaa gcttatctct aaggctactg tcttcagaat gctctgagct 1800
gaatgctctt gctcctttcc caagaggcag atgaaaatat agccagttta tctataccct 1860
tcctatctga ggaggagaat agaaaagtag ggtaaatatg taacgtaaaa tatgtcattc 1920
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gtaagggatg ctttgtgacc cagggtttct gaagtcagat agccattctt acctgcccct 2040
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aacatgtcag aaaattcaga ggggtgcata ccaataatcc tttggaaact ggatgtctta 2160
ctgggtgcta gaatgaaaat gtaggtatct attgtcagat gatgaagttc attgtttttt 2220
tcaaaattgg tgttgaaata tcaactgtcca atgtgttcac ttatgtgaaa gctaaattga 2280
atgaggcaaa aagagcaaat agtttgtata tttgtaatac cttttgtatt tcttacaata 2340
aaaatattgg tagcaataaa aaataataaa aacaataact ttaaactgct ttctggagat 2400
gaattactct cctggctatt ttctttttta ctttaatgta aaatgagtat aactgtagt 2460
agtaaaattc attaaattcc aagtttttagc aaaaaaaaaa a 2501

```

<210> 670

<211> 429

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (369)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (380)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (410)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (415)

<223> n equals a,t,g, or c

460

<400> 670

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ctcacttcg gcatgtgatc ctgggtatca ggtgttacat tatatagtat tttacagagg 60
aagtagctca gcaaatttaa ctggcctcag agtctgtggt tcagttggtt tgcacagggc 120
taaaagctgg tgagtgggtt atacaccatc acaaaggatg cccattcttc gcagtgactg 180
cagatgcgtg cggacggaga gcacaaggat ctcactatca tttctccctg ctaactccta 240
gaaagctttc cactttcttg gacacgttat ttaaagtgtt atagtttggt tttttaaaact 300
tgtgttcaga aaacacttac caccatattg cttcactgta ctattccaat tcagtccttc 360
tgttaccna actctatatn gtgcttggtta aactattcca tgaaatttan taccnggaag 420
aaattaggc 429

```

<210> 671

<211> 1482

<212> DNA

<213> Homo sapiens

<400> 671

```

cagggcactg agtgattctg gatgggcttc tgacctgggg acaatttaaa cagcattaca 60
accgacattt tggttttctt ggggatttta taggccaggt acaaagcaga aagtgcatag 120
aagatgtgat ccactttgcc tgggaagaga agctctttct cctggctgat gaggtgtacc 180
aggacaacgt gtactctcca gattgcagat tccactcctt caagaagggt ctgtacgaga 240
tggggccccga gtactccagc aacgtggagc tcgctcctt cactccacc tccaagggct 300
acatgggcca gtgtggttac agaggaggct acatggagggt gatcaacctg caccctgaga 360
tcaagggcca gctggtgaag ctgctgtcgg tgcgcctgtg cccccagtg tctgggcagg 420
ccgccatgga cattgtcgtg aaccccccg tggcaggaga ggagtccttt gagcaattca 480
gccgagagaa ggagtccgtc ctgggtaatc tggccaaaaa agcaaagctg acggaagacc 540
tgtttaacca agtcccagga attcactgca accccttgca gggggccatg tacgccttcc 600
ctcggatctt cattcctgcc aaagctgtgg aggctgtcga ggcccatcaa atggctccag 660
acatgttcta ctgcatgaag ctctggagg agactggcat ctgtgtcgtg cccggcagtg 720
gctttgggca gaggaaggc acttaccact tcaggatgac tctctcctt ccagtggaga 780
agctgaaaac ggtgctgcag aaggtgaaag acttccacat caacttctg gagaagtacg 840
cgtgaggacg cctgagcccc agcgggagac ctgtccttgg ctcttctctc caatgcccg 900
caggctgaac tcgctcctc cgtgactctg cctcgggcct cgcagaggcc gctggctact 960
tcgtcatcat tttgccctg gagacgtctt tctttgtgcc ttgatgttga gagegcctct 1020
cttttgagca aacaagcatt ctatatgcaa ccagagtaga ggggacctgc tcagcaggtg 1080
tgaccagggt tctctgaatc tgttattggt tttgcttctg gaaagtcat ttgggggtta 1140
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aaatgtgtga cttaaccgtg gtgagggctg gaaatccaaa ctcaccacca tgatctgtgg 1260
catcaggctt ctcccagtac aggagggctc catccccag catgcggctt ctctgccatt 1320
agcagccctg ggcgggcccga ccacactcga ggctgcgggtg ctacgggctt agcctcgct 1380
ccctcactgg gagcttcccc atctctcctg ccttccccag tgggaagtta ggggaagctca 1440
ggagcctggg accccgcatg tcccaaatg ggattggaga ag 1482

```

<210> 672

<211> 607

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (499)

<223> n equals a,t,g, or c

461

<220>
 <221> misc feature
 <222> (585)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (596)
 <223> n equals a,t,g, or c

<400> 672
 aattcagcac gagatgtcac attgaagaat ttcttcatga tacattttca ggcacacttg 60
 taggaaaatt aggatcatga gtcctgcttt aagtattttgc agtgtagtaa gagaatccat 120
 cttttactag gagaccagat tccttttata cctcattcat catgctggat tgtaataaat 180
 ttcagatttt ggaatgggct tatttaactg acctaacaat cttgatgatt tccattagaa 240
 taacttattc taagggtcaaa agtggaaaaga cactgttggt ttttattttg atttcactat 300
 actcattttt gaacatggaa atacagtggg gaaacmctt atgcaaaaat gataacagtg 360
 aggaaattat gacagtgaaa gagatctgac ctaactatct atcttgccctc gaaactgccc 420
 ttggtcgttc ctgagtgtgg gccaaagctaa ctttggggaga aatttacttt atagggttaa 480
 ttataatagc ccttccccna aactaaacgg attctcctgc ctcagcctcc cgagtagctg 540
 tccttataat accatcagcc tatcattttat tcgtcatggg atggnttggt tcccanatcc 600
 cctatcc 607

<210> 673
 <211> 470
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (389)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (469)
 <223> n equals a,t,g, or c

<400> 673
 ccattcaacc cagtacaaaa tccaactgaa gccagcaag tggctcatgc ctgttctatc 60
 tctgaggaca gttgtgattg gatttagggc ccatccagtt agtccaggat gatctcatct 120
 caagatccta aatctgatta caattgcaaa gatccttttt ccaaataagg tcacatgcac 180
 gtaagttccg gggattatgc ttgcgtggga cacatctttt ttgaggccac cattcaacc 240
 actacaaaat ccaactgaag ccagcgaag tggctcatgc ctgaaatccc cgcactgtgc 300
 gaggccaagg caggagggtc acctgaggcc aggagttcaa gagtagcctg ggcagcgtag 360
 ggagrtccck atctcttttt tttttcgana tggagtttcg ttcttggttac tcaggctgga 420
 atgcaatggc gcaatcttgg ctactataa ctctctctc ctgggttcna 470

<210> 674
 <211> 1110

462

<212> DNA

<213> Homo sapiens

<400> 674

```

ggcagagctg ttttggagat tgattgggtg ggtctagagc cagaattcat atttttaata 60
tgcattccag gagactcctg cgaatcagat gcatttggaa atcattgcac taagtcatac 120
ctctgggtac tccaaacagc tagtcctgag gcttccttgg gccttagaat tttttcttca 180
aatgtcctgg tgaggtcctt ctcaatcctt tggggctggc tgtggtgagt cactcagaag 240
tctggctgtg acctgggatg ggctcaccag agtacgctat ggtagtgagg aaacaggcag 300
agagaaagga gtgtcaggag cactcccagg gaggtgttgg tagatatttc cattcccaga 360
acagtgatct attgtgacag tctcagaaca gacaacaaga attacaggta attttctcat 420
tctcttgata tatttttagc aaaacttaaa tcatgaatag aaggaaaaga tgccattggg 480
gaaatagaaa aactcaatca ttttataaag catacaaac ataaggatga ctggccaata 540
gcactcccac tttggtctta cctaaagtgg ggtggacaag aataataaaa gtccctcakt 600
tatactcttc caaaatcaga tttaaatgct gccagcatct taatggaagt ctgaaattga 660
ttgataggat gtagaaatcc aaattcacta aaataggggg ccagctacat aaagtcctag 720
aaggaaaaag tgcctcgctt ttttctgcca ttatcctacc ccctagtcac ctggggaatt 780
gatctatgaa gcttgaagaa ggggcattta acatcagagt ggtgcaaggg cagtgttgag 840
atgctttaag cagcagcctg agcttttagc ctatttgaag gggagaaggg taataactaat 900
aatatttgtg ttatttttat gatataattac tgtttacaga acactttcat ttgatcccaa 960
catcaactgc tgtgatagag gcagggcaga tgttgtgggc tcattacata gaatgtaaaa 1020
ctgagggttg aaaataactaa gtgacttgct tgtagtcaaa tggtttttaa aattataaag 1080
ccaggccttc tgactgtcaa aaaaaaaaaa 1110

```

<210> 675

<211> 250

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (245)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (246)

<223> n equals a,t,g, or c

<400> 675

```

ggcacgagcg gcacgagcta gttcctaatac ttaatctagc ttcaacattg ccctgcttgc 60
aaatttacta ctttttaaaa tgacttgaat cttctctatt ttacagttc ttgtctattt 120
tttccctgta acagtttgta tgaacactaa tgtggtgttc aacctccct ttcaatttta 180
gagaattgga ttctatatatt gaacgtcact taaatttttg agtcctcaaa accaaccttg 240
ttggnntggg 250

```

<210> 676

<211> 692

<212> DNA

<213> Homo sapiens

463

<220>
 <221> misc feature
 <222> (50)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (73)
 <223> n equals a,t,g, or c

<400> 676
 tgggggctct ggactgtggc tcacccgctt cctccacacc ctatttcacn ggccctggagc 60
 tcccagggga ctngaagctg gacgcgccct acaacttcaa ccacccttty tccatcaaca 120
 acctaatgtm agaacagaca ccagcacctc ccaaactgga cgtgggggttt kggggctacg 180
 gggctgaagg tggggagcct ggagtctact accagggcct ctattcccgc tctttgctta 240
 atgcatccta gcagggggtt ggaacatggt ggtgggtatg gctggagctc acaccacgaa 300
 gctcttgggg cctgatcctt ctggtgacac ttcacttgct ccattgggta acatctgggt 360
 ggggtctatta cttactgtga tgactgstgt ctcagtgggc atgggtgtga tccacgggggt 420
 actgtgataa ccaccatgtg ccatgatggc tgctgcagcc ccgtgttggc catgtcgtca 480
 ccattctctc tggcatgggt tgggtagggg atggaggtga gaatactcct tggttttctc 540
 tgaagcccac cttttcccc aactctggtc caggagaaac cagaaaaggc tggtttaggg 600
 gtggggaatt tctactgaag tctgattctt tcccgggaag cgggggtactg gctgtcctta 660
 atcattaaag gtaccgtgtc cgcctcttaa aa 692

<210> 677
 <211> 362
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (356)
 <223> n equals a,t,g, or c

<400> 677
 ttgatacgac tcactatagg gaaagctggt acgcctgcag gtaccgggtcc ggaattcccg 60
 ggtcgaccca cgcgtccgat tgttttgtat tttctagagt tttatataaa tgggaattaca 120
 tagtatgtac ttttctttat agtctggctt ctttcactca aataattatt ttgagattct 180
 tctctgttgt tgcattgtata aataattcat tcattttttg tagtaatatc ccattatatg 240
 ggtataccaa aatttatcat tcatttgctg atgagcattt gggttattta cagttttatt 300
 tacaawtaaa gctgttacga atattagtgt acgagtcttt atatggacat atattntcat 360
 tt 362

<210> 678
 <211> 334
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (87)

464

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (91)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (326)

<223> n equals a,t,g, or c

<400> 678

```

aggattcagg ctgcagaaca taagacacgg aaagacgaaa aacgcaaagc tgaggaagcc 60
ctcagtgcacc tcagacgtca tatgaanctg naagtaggag atctgcaggt gaaccattaa 120
aaagctaaga aagctcgaag aacaatcaaa aygcgtaagt caaaaggaag atgtggctgc 180
attgaaaaaa caaatatg atttatcaat ggaaaaccag aagttaagaa agaccttta 240
gaagcacaga caaacatagc ctttcttcag agtgagttag atgctttgaa aagtgrttat 300
gctgacmga gtctgawtac tgaaanggat cttg 334

```

<210> 679

<211> 613

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (571)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (590)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (601)

<223> n equals a,t,g, or c

<400> 679

```

gcaggaaggg tagaggggac tggagttggc taagtctctt ttctccaagt caggtaagac 60
tctggtgcag ctttttcctt tgggtggtctg gcctttattg tggaaaatgc tatgggttca 120
tttcaaaatg gctatctttc aaacctgagc atatttcaaa atagttactt ttttcctgcc 180
catggtcaaa caagagagtt ttctctgtt cttcgccatg agaacctggg agggcatctg 240
aaggtaaaat ccgtgaatgt atgagggctg cctttaactt aaacttgaaa cctcccaggg 300

```

465

```

gattttatct cacaagcctg atcagtgttc aagyccaac agytaatcaa ttatcattta 360
agcattctta gctgctcatg cctccagcag tttcaaatac tggcaaaacta tgattctgtg 420
tatttgcccc tcgctccagt ttttggggca tgagtttttt tctgtaactt ctgggtctctg 480
atggatctca gaaaattcat taattttcaa tttgtacatc ttttctcttg gtaggacagg 540
aatgatcatt tacaagctct ttatatgtca nagcccaaat canaagctgn aataatccca 600
naaattggggg ttt 613

```

<210> 680

<211> 400

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (362)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (375)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (378)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (388)

<223> n equals a,t,g, or c

<400> 680

```

ggaaccaggc tgtggtcctg acctccagca gctgccagtc atcttggcaa catagaaaat 60
caaggaaaac gcctaaaagg aggcagaagt gtgtgtcagc aaggtcccaa ctatgtaaga 120
tggacacgag ggactcacct tcagggagga aagagccggg gcagaacgctc aggagactgg 180
ccaaagggtc ttccctgcct tcaggacgag actagactcc tcagtcctgc atttmaggct 240
cctgccaccc gcctgctgct cactgatccc tccctccac tgtcggcctc catccagggtg 300
gcagtgcctg cgctttgtma ggctctctct tgtctctgca ttttgcacaa gctctgacct 360
anttaccgaa atgtncnca accacnca tctgcatgt 400

```

<210> 681

<211> 585

<212> DNA

<213> Homo sapiens

<400> 681

```

caaagggttt tctttgaaga caggtsaaat gctgttagta agtttcagga gattgttaat 60
tcctcagtta taccagattt tataaaatat ttgagaatag atggctaaca agaggttaga 120
aatacttttc cttaatttta atccacagta tggtacatgc attctaccac tacatttttg 180
tgctatttaa ggtgtgcamb tttctatagg tgacttttgc aattcaggga agatttgggc 240

```

466

```

atattaaatg aaagaatatc taattggggg aggtgtgaag ggaaagaaat tcttttcaaa 300
agctgaccac aaagagkagt taaaagtttt tgtcactatc ttcacaagtg tgtaaagcac 360
agatttcaac agagtgcttg gcatattgka ggggtgctcaa tgggtggkttt tattattatt 420
actcagattc cacagtggca agaaacatca ttctacataa tggaaaacat ttacatcaaa 480
tcccacttac tttaatgcga acttggagat aattttatggg attgtattgt aaaccattaa 540
tgaaaacttt ttcacagttg agtgaaatta aaatcactat atctc 585

```

<210> 682

<211> 610

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (576)

<223> n equals a,t,g, or c

<400> 682

```

ttgcagctat acaaaatatt taaaatctca agtattcacc ctagatagag ttattatcta 60
agcattttat cttatccatc tcaaaaagaa aagaaaagaa gactctgacc tgtactcttg 120
aatacaagtt tctgatacca ctgcactgtc tgagaatttc caaaacttta atgaactaac 180
tgacagcttc atgaaactgt ccaccaagat caagcagaga aaataattaa ttcatggga 240
ctaaatgaac taatgaggat aatattttca taatttttta tttgaaattt tgctgattct 300
ttaaatgtct tgtttccag atttcaggaa actttttttc ttttaagcta tccacagctt 360
acagcaattt gataaaatat acttttgtga acaaaaattg agacatttac attttctccc 420
tatgtggctg ctccagactt gggaaactat tcatgaatat ttatattgta tggtaatata 480
gttattgcac aagttcaata aaaatctgct ctttgtatra cagaatacat ttgaaaacmt 540
tggktatatt accaaaactt ttgactagaa tgtcgnattt gaggatataa acccataggt 600
aataaacccc 610

```

<210> 683

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (377)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (383)

<223> n equals a,t,g, or c

<400> 683

467

```

tcataattttt antttttttt ttttctgtta tacaaagagc agattttttat tgaacttgtg 60
caataactat attaccatac aatataaata ttgcacaagt tcaataaaaa tctgctcttt 120
gtatgacaga atacatttga aaacattggt tatattacca agactttgac tagaatgtcg 180
tatttgagga tataaaccga taggtaataa acccacaggt actacaaaca aagtctgaag 240
tcagccttgg tttggcttcc tagtgtcaat taaacttcta aaagtttaat ytgagattcc 300
ttataaaaaac ttccagcaaa gcaactttaa aaaagtctat gtggtcagtc actactcttg 360
ctgcagttat gaaaaanaat gangccaagt ctgatgaaaa taaacttatt ttgaa 415

```

<210> 684

<211> 653

<212> DNA

<213> Homo sapiens

<400> 684

```

ttagcttctc attgagattc ctagaggtgc gttcgagttt tcagagtaat tttccagacc 60
aaccagcgtc agtgggaaat ctgacctctt ttggcaaact gcgatcattc attttcctga 120
gtcccctggg ggggtggggg aattctgcct caggaccttg aggggtcttt ggggcaagat 180
ggccttggtg atgcagccac taagaacagg acttcattca aaggcataat gaagtaacca 240
gggtgaccat caagtaaaat taaagcacia gatcattgta ggaggcttcc ttgtcaaaga 300
cgtgaacgtg ggatttccaa cgcaccacgg tgtgtccact catcactgca tgtaggaac 360
tgctgtctct ttgggacacg agttaaaga acacactaat ttctggagtg tgctgcagc 420
ttcacggcct tcattttgtt actaagttat tttctggaag aacagcaaaa atttcagggt 480
gaaaacagaa ctttccaagt gctactgaaa ttccgcagag aattacgctg cgatgggtggg 540
tttcttacc tagaaacatc ctaacctgta tccacagaag atgtcctttt atttttttaa 600
aagatcaata aatcaagag aaacgaaaaa aaaaaaaaaa aaaaaaaaaa aaa 653

```

<210> 685

<211> 319

<212> DNA

<213> Homo sapiens

<400> 685

```

gttcagcctc agcacgcctg caccagggcg ctcattaaaa cagcatgttg ctccccactg 60
cctcgtgttg tctgttggcg cgctgtcggg gttcgaaccg atacaagaac cttccacctg 120
cctggtgctt tggcctcatc tataagcttt tccactgtcc tgaaacaaga tagaraatct 180
gagcggccag tcactgtccc taagtgtctg cgccgaagac tgaatgtcct ggaaagtttg 240
ctgtcacatc tccattatga caaaagcatt gtgccgaaca gatgaaaaaa tgcattgtca 300
acggaatctt ttatgttag 319

```

<210> 686

<211> 281

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (253)

<223> n equals a,t,g, or c

<220>

<221> misc feature

468

<222> (260)

<223> n equals a,t,g, or c

<400> 686

```
gcctgttctg gacctgtata aaaatgtcta cacagtagaa gtgacatcaa ggtttaataa 60
gtatatcaat gattggcaca tataaaaatt gttgaaccac atactctgaa cttggctaata 120
ttagttactg caggcctcca ttatccagtt ttatTTTTTTT caggrttgac cttgccttgt 180
agctggtgct gtgtagacct gtgttgraaa cacaatcgga atatatgaat aattgaataa 240
acagcattat ggngaggcan agacacatgg agaagtgtta a 281
```

<210> 687

<211> 178

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (111)

<223> n equals a,t,g, or c

<400> 687

```
gctggtcagt gcagcccat tctgacatta ctatgaggctc ctggatatcc attccttggg 60
gaggaccagt aagacatctg ctccatccct ggaactggat aatttttgaa nataaaccag 120
ggacctagcc aacagaatgc cttagcaatg cccaggggctc aatgggcgtg gcattctt 178
```

<210> 688

<211> 337

<212> DNA

<213> Homo sapiens

<400> 688

```
ggtaggaggc aaagcagtgg gtctctctca ccagccgctt acgggaccct gccatgcctg 60
gacctctcta tcaggaagac ctacccagc actactggaa aatcagccaa tcttaaccca 120
aagatggcca tgatttctgt atgtgagacg tcttaagggg gtttttgttt gttttaatca 180
gccctcttgt ttgagatttg gcaatacatt tctgttttct argttatttc tgtgtctgat 240
ggtwgargat ctaataagta ttggaatgct tcctatttgc tgatagaakt accaaatagt 300
attattgaag tctaacaaaag acttttgttg agaacac 337
```

<210> 689

<211> 1135

<212> DNA

<213> Homo sapiens

<400> 689

```
gccgaatagg tgtttccttc attgatgatg gaagtaatgc aacagagtaa gtaccattcc 60
aggagtgtct aaagccgagc tttgagtgtg catgattgat aggacttgaa gaataaaaaat 120
agaaacaatt gacctctcag gtgagaaagt cacacaaaac aagctactgt taaaagactg 180
aatattttta gttttctgta aattatcagt tattttttcc agtctcctta gaaaaatggc 240
aacacagatg gtagctgcac agcttgcatc aatggtgtgg aataacccaa gtcagcaaca 300
atztatgcaa tttggaggaa gctctggatc acagttgcct caaatccaga cagatgttgt 360
acttccatca tgcaaaaaaa aagctcctgc tgaaactcct gtgaaagaaa gactttttat 420
```

469

```

tgtgtttaat cctcatcctt tacctttaga cgtattagaa gatataattct gtcgttttgg 480
taacctgatac gaagtttacc ttgtgtcagg aaaaaatgtg gggatatgcca agtatgccga 540
tagaataagt gctaatagat ccattgccac tctacatgga aagattctga atgggggtgag 600
acttaaagtt atgctggcag attcgccaag agaagaatct aacaaacggc aaagaactta 660
ctgattccttg agtggccctg aagctgcact atgttggagg ttcccttgac taagagaacc 720
acatgcccga ttcagctcag taggggagtc ataaaagatc tcgcctctga ccagaagagt 780
atgaatgaca aaggtgacat aaccagcaca gaaagatgtc ttagcctctg cacatcagct 840
gatttagaat acttatgtag atagcggttg gggtcggggg ggtscggaat gttcttttca 900
gcttctttgc ccygagaact ttgatcttat tgcaaggaag tcccttacc tcttctacc 960
tagatctgat ggacctcctg ggatttcctg gggaaatraa atgagtctaa cacctttgac 1020
cacctgctgg atattatatac agcacttact taagtaagct gtggaagagc tgaaagcagt 1080
attcagagtc tgacagttct ctgcaattgg cctagataaa ctcattgtga aataa 1135

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<210> 690

<211> 428

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (385)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (427)

<223> n equals a,t,g, or c

<400> 690

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aagagcgaaa ctccatctca ggaaaaaaaa aaaaaaaaaa tatattctaa cagacagatc 60
agaggtctaa gagatcctcc cttgctatta ttacctgaag tctgtagaac tgtttacaga 120
tatctccttg acaggtgtcc tttatcttac tttatctgta cagtaatcct gtgagaaaga 180
caggacagaa accactgtgc ctattttaca gatacgaaaa ctgagacaca ggtaaagggg 240
cttgtctgta gtcccatagc tagcagatgg ctggagccaa gactgaggct cgttcttcaa 300
tgctgagcca gggtccttcc gctgcaccac aagaacgcta gaccactcgc caccagcctt 360
ttcattccct cttcctccat ttaancaatt ttaagctggg tgggcctccc aaagggtttt 420
gggaaaana 428

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<210> 691

<211> 1287

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1281)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1285)

470

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1287)

<223> n equals a,t,g, or c

<400> 691

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aagaaatcgg gcgctatata cctgtaacag gagacagawt tggacamcaa ggrttttaag 60
agycattgcc cattgtaaaag cattaagcca gagctgggta ttcattatca gactaactac 120
atactagtcc atgctagtgt cagcctatat taaaatagtc tttccttgcc atagtgtctgg 180
cgaaaaccca atcccttctg atgaaacatt gcttcttggg aagacaagct gaggaaagca 240
atgaagatcc cagtgtcggc ctttattgag ctatgtatga gggtcagggt ccctcaactc 300
ctagtgacta tgaagcagca gtgtgatggc ttgcacctct ttgccccctc gtcacatcaatc 360
ctttgcatgt ggctatttta agcttctcag ctttcttttg ggaggcttca tgtgttaactt 420
attatagaaa tgttactgaa aagctgccta aacaaaaaat tgtataaagt aggaatttgt 480
ataaagtaat actgttgtaa atccatcttc aagatgtaaa gaatcaattt gtaaagtgt 540
tatttttact tctcccttca aatttatgtg aacaagtttt tcatgtttca atattgctta 600
cataggaata caccttacgt ttttatcagt ataaatggaa catttaaac cagtcaacaa 660
cagaacagat aatccagctc cctgtttgtg ttctggggtta attttgcaag gatgaagggc 720
tagaaagtgg tgagtttggg tgtgtttctt attttcagga taaccggctg cattgcagta 780
gaggaatgga atggtgaggt catttgacct gttccagggt agtggaggcc aaagaacatt 840
gtttctgcct ccccttggat gggaaaattg agaaattaaa agtttgcctt tccgaggaaa 900
caaaagttat tttctctatt taaaataaat gtccaaaggc acccttctaa acacaaaaac 960
tttttagctcc tggcaaactt acctagctag aagttggaga agagtgcggt ttcaaaccat 1020
gcttcctttc tgcccttgcc aatacgttct cactgactgt gattctgctg tgaacacaca 1080
cacacacaca caaacacaca cacaagcccc ttctgtgtat gatcaggaca agtagttcaa 1140
cagttaataa aaaagttaaa ttattggatg agaaagatat atttaaccta aatcataaat 1200
atgtawatcc atttaataaa cactaaaatt gagaaaaaaa aaaaaaaaaa actcgagggg 1260
ggccccggagg ccaattcggg nctgnan 1287

```

<210> 692

<211> 351

<212> DNA

<213> Homo sapiens

<400> 692

```

cctgtctcaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagccct 60
ggtgttccaa actcagtctt tctgaagaa gaggatctga gttatcttct gaaacagcgt 120
tctcccttcc cagttgtatc actcttataa aaagactgtc cagtctatgt catgccctag 180
gagacaaaact gttcttccca gccccctttg agtattgagc agaagaatca aattattaaa 240
tacgtatgtt tgtacagaat ggtattttgt tatgtgtgtg ggcttagaga ttcacaagta 300
aatattcctt tgggtgaagga atttcaataa aaacatctat caagtgtcaa a 351

```

<210> 693

<211> 1204

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

471

<222> (1010)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1080)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1201)
 <223> n equals a,t,g, or c

<400> 693
 ggcaaggaca aagaagattc cttttctggg agtttgtctt gggatgcaac tagcagtgat 60
 agagtttgca agaaactgcc ttaacttgaa agatgctgat tccacagagt ttaggccaaa 120
 tgccccagtt cctctggtga ttgatatgcc cgagcacaac cctggcaatt tgggaggaac 180
 aatgagactg ggaataagaa gaactgtttt caaaactgaa aattcaatat taaggaaact 240
 ttatggtgat gttcctttta tagaagaaag acacagacat cggttcgagg taaaccctaa 300
 cctgatcaaa caatttgagc agaatgactt aagttttgta ggtcaggatg ttgatggaga 360
 caggatggaa atcattgaac tggcaaatca tccttatttt gttggtgtcc agttccatcc 420
 tgagttttct tctaggccga tgaagccttc ccctccgtat ctggggctgt tacttgagc 480
 aactgggaac ctgaatgcct acttgcaaca gggttgcaaa ctgtcttcca gtgatagata 540
 cagtgatgcc agtgatgaca gcttttcaga gcccaaggata gctgagttgg aaataagctg 600
 aaatgaatac atgactggga ataattggga ctgcctgtga ggcctctgaa ataattgaag 660
 gcaagatgaa ggaactatct gaagaaatca ctacactctt agagaatccc tctgttctcc 720
 agcaaacatg ggatgtaaag cctcacaggg aatctgataa tacatacttc tgtcaaccag 780
 aaccagaggg gtagttttct ttccctcca gaggcagcct ttggtactta aaatatctgt 840
 agctgattaa atttttccca acaacctcac tggggagaaa gtgtgttcat gttttgtcca 900
 gcggatcagg atgttaggat gacgagcaag agtccaggtc actgtgcctt tgctgtgttg 960
 tatggaaagg atggcagggg acatgctgta agtaattttg agtaagaaan tgagtcactg 1020
 tggtacctgg aactcagcca cagattttgtg tgtggtccaa gatcattgca gtttctcaen 1080
 ctgtttatct cctggtaaaa gtaaaattga atagggtccaa gacttggggg tggcaagtaa 1140
 ggctttgcct caagcacaaa atttaagggg gctccaaaaa actcaggaat ccaagggggg 1200
 nngg 1204

<210> 694
 <211> 283
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (237)
 <223> n equals a,t,g, or c

<400> 694
 gccagcccag gtcttgagg agcacaatct agtgttctac acaatggggt tttccatggg 60
 tctccaggag agctattata caccagaag atccagcctt taccagcgt ctctcctttt 120
 tctctcttgc tccccctccc tatgccaaagg agtaggcaaa gkttgacatt tcgcacctcc 180
 attgcccasc tcattctaag gcctttatct aaaggtggat aatggcacat araaaanttt 240

472

ttctataaca ggtagcaca tttcctatgg tgctttggaa ttt

283

<210> 695

<211> 2733

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (431)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (456)

<223> n equals a,t,g, or c

<400> 695

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cacgagcaaa ggtgacagct tccggcaact gatgcctcca ctggccactc ctcctccct 60
ccacctgtca cttcgggtag ctgggaggcc agttaaaaaa aatggaacct ttttccctswg 120
acactttcgt ggcattacct ccagcaacag tcgataacag gattatTTTT ggaaaaaatt 180
cagatagact ctatgatgaa gtacaagagg tggTTTTattt tcctgctgta gttcatgata 240
acctgggaga acgtcttaag tgtacatata tagaaattga tcaagttcct gaaacatatg 300
ctgttgkccct gagkcgccca gctggttgtg gggggcagaa atgggagcca atgagcatgg 360
agtttgcatt gggaatgaag ctgtatgggg aagagaagaa gtttgtgaat gaagaagcac 420
tattagggat nggacctgtg tcagacttng gccttngaaa gagctgatac agytgaaaaa 480
gccctcaatg tcattgtttg gacttactag aaaaatatgg ccagggtgga aattgcacag 540
agggtagaat ggtatttagc tatcacaaca gtttccctgat agctgatagg aatgaagcct 600
ggattctgga gactgcaggg aagtactggg cagcagaaaa agtacaagag ggagtccgta 660
atatttctaa tcaactttcc ataacaacca agattgcccg ggaacacca gacatgagaa 720
actatgctaa gcggaaaggt tgggtgggatg gtaaaaagga gtttgatttt gctgcagcat 780
attcctatct tgacacagcc aagatgatga cttcatcagg cagatactgt gagggctaca 840
agcttctaaa taagcacaaa ggaaatataa cttttgaaac aatgatggaa attcttcgag 900
ataaaccaag tggcattaat atggagggag aattcctgac cactgcaagc atggtttcta 960
ttttacctca agactccagc cttccttgca ttcacttctt tacagggact cctgacctg 1020
agagatctgt ttttaagcct ttcataattg tgccacatat ttcacaacta ttggatacca 1080
gttcaccaac atttgaactt gaagatctag ttaaaaagaa atcacatttt aagcctgaca 1140
gaagacaccc actctaccaaa aaacatcaac aggcatttga agtagtaaat aataatgagg 1200
aaaaagccaa aataatgttg gacaacatga ggaaactgga gaaagaacta ttcagagaga 1260
tggaatcaat ctttcaaaac aagcatcttg atgtggagaa aattgttaat ctctttcctc 1320
agtgtacaaa agatgaaatt caaatttatc agtcaaattt atcagtcaaa gtttagttctt 1380
agtgatcata tggtcagcta atattagttc ttagtgatca gtggtcagta atcttcaaaag 1440
tcagaatcta tcaccttggg aaattatata aacctaacct gagcagatct gattattctt 1500
ggatagtatt caagtgggat cttgactatt aaactacgta tagtggtgct gaaatagaaa 1560
gaaaacagca ttggaattgg attcatgtat cgtgggatac aggtgttatt tcagggtgatg 1620
tacttgcatt attttcttta gccatagtaa ctttttgtca caataactaa gtattcaatt 1680

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473

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atatataaag agtgaaacat taaaatgacg catggattta tatttattat aattatgtag 1740
taccctcaaa tcattttgtc agttacatca agaaagcaga tttttcttta gtcataaaaa 1800
atatctcaag tggtaagttg tttgtgcttt aggcaaacat taaccagctc taacaagaaa 1860
aatgtctaga ttacacatt gtcaatacag tatattagtt ctgcaaagtc acttttggtta 1920
aactcaaaca tgctctttgt caagacttgg ctaaccagtg agcttgtagc tctgattatc 1980
tagcattttt aggggtcattc tccttaatag gcttttatgt taataagata tattttttaga 2040
agagcttggt tgggagatta gagaataaga taaaagaacc aaaaccttag gatatactgt 2100
ttctgggtct gaaatctctc tcattgttta cttctgttca ctgagtgaac acagaaacaa 2160
gaatgaggta gtggcaatga aatagaatta ttagtatatt atgaacatta taacattttg 2220
aacactataa tgcattatat attatgaact tttatgaact ttatacatga gtaatagctt 2280
cctaaagttt ataaaacatt gtttaggtta cataaagatt accaagtaag actcaaaatt 2340
gcaaataata acaaaagaaa aatccaactg aaaataacac taagtatttt tgagtttcta 2400
gaatgtccat tttggtattt ggttacatta tcatatttac tagtcactat cagcacaatt 2460
aggttaataa agaagtgggt catttatattc aaagagtgtc caggaagtta tgtgttcaaa 2520
gttctctcat aaataccatc gtctgcctga tactgctctt gtctaataga gggttgacat 2580
tacaaaagaa aagatgtctg actcaagaac tcagttgatt ctgtttgcct taagtttggk 2640
tcagtgatag gctgtcttct aaccctata ctctcttctc ctcttttaat agatgaggra 2700
actaagggca aacagttcgt tacacttacg gga 2733
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<210> 696

<211> 575

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (468)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (512)

<223> n equals a,t,g, or c

<220>

<221> misc feature

474

<222> (542)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (550)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (556)
 <223> n equals a,t,g, or c

<400> 696
 tccctatagg gaaagctggn acgcntgcan gtaccgggtcc ggaattcccg ggtcgaccca 60
 cgcgtccgct ctgaaaatga tctacagcac gatccagaag aaatgaactt tgtgggaaaa 120
 gaacaaaagg ccacccaaag aggccaagct gtgatggaaa agaaaaccaa caggatgaga 180
 tgaaagggga gattaacaag cwawataaga attgcaagga aatgaaatgc tagggcactt 240
 acaatccttc ttggggggcag tgagagcggg gatgctggat gtgaaatcag tgacatggaa 300
 ggcaaaactgg aaaccctgga tgaaagtgtg tcatgcacag aataccaaaa aagataaatc 360
 cagaagacac agagccagtg ttgggttttcc tgaggaagag acagcttgaa aaaaggtctg 420
 tgtttgcaga ccaataacctg aaagtaaaty caaaggaaac agatccgnca ctagacacat 480
 ggtggcaaaa atgtttaata accaagtgtc angggtagaa aaagaatggc cagatagaat 540
 gngcgccctn ccctgncccc tctatcccaa gaagg 575

<210> 697
 <211> 948
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (8)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (930)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (936)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (945)
 <223> n equals a,t,g, or c

<220>

475

<221> misc feature

<222> (948)

<223> n equals a,t,g, or c

<400> 697

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cacgcgtncg gtctcagaaa aaaagaaaat tcaaggccag ttaagacaaa atgctatgac 60
tttgaaattc acagaaagaa ataacagttt agattagggtc ttcaggtatt caggatagag 120
ataatctcct gaaaaacctg aatttcagag attcttagac tggctgcca aggatgaagc 180
tagtgaagga gaaaaagctt aaattccatc ttgagctctt ggattgtgat aatacaatga 240
tttcattaac ttttcatttc tgtataacctg ttcatttggg atttaatgct tgacttcttt 300
gttcattttg gatctaaact tctcttttct tcttcccca ttcacatcta ttagaagact 360
gcatcaccat ttctttggcc cccttactct gttgtctctt cccttttctt tcagtttttt 420
taatcgcatg tctagtatat taagtctcca tagccctcct gatgcagtag acagtgctat 480
gctgtggata taataccaac cagaaattgg catttataaa cctgttaaga gactttaagc 540
atgcttcaag aggcagttga cccactggaa tttctataag gctggtaccc tcccagagt 600
tacagaatct trgggtgccg ctctagtctg tgagggagga actcccagca tccccattgc 660
ccacaaatgg aatcctcact gtatccacta ggagattaga aattaagggt tcttccactac 720
ttctatggta ggggtgtctg aaattccctt tcaggctgtg ggtactgggtc ttgggttcta 780
gtcataaggg gtctcttata aggagcaggc ggaggggagt acactttcat gtgatttaat 840
tttgatcctg ccctctccag ctgctccttc aaaagatata tcaaaagata gaaactctgg 900
gctgggcaca gtggctacac actttgggan gccaanccgg ggggnntn 948

```

<210> 698

<211> 1494

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1494)

<223> n equals a,t,g, or c

<400> 698

```

agatgggttt agcccaagag ttcgaggctg cagtaagcta tgategcate actgcactcc 60
agcttgagca aaagagagac cctgtctcta aaaaaaaaaa aaaaaaaaaa aaaagaaaga 120
aaactggagt gctagaacta ttttaatat gaatatgttt tttctagtaa tgtttttcac 180
ccttcttaca gatgttcgtg agcagcagtg gattgccacc aagtcaggtt cccagtccaa 240
gacgattttc aagcaggaga agtcagagtc cagtcaagtg cattagaccc agtgttcttg 300
gtcctcttaa aagaaaagggt gaaatggaga cagaaagtca gcccaagaga ctcttccaag 360
gcactaccaa tatgttatct ccagatgccg cgcaactgtc tgatctcagt tcatgkctag 420
atattttgga tggcagtakt agcagcagtg gcttatcctc agaccgctg gctaaaggca 480
gcgctaccgc agagtctcca gtagcatgct ccaattcatg ctcttcgttc atcttgatgg 540
mtgatctctc acccaagtga cttaaccatt tctgattcaa cgttttaact gctgtttcct 600
acataaaatg tttagtgggg aacgcagaga actttgatcc ataatgagga ttaaagtttt 660
acagatttca cacattctga tgctattatt actctttggc atctctcttc tccaaagttc 720
aattttgtga gcctagtga cttactagta tctgggtttg ctgatctcat tttggattta 780
gtgattaaat ctcaaagtgt gatttttgat tgcttagagg aatctttttt cttagtgctt 840
caaaaaacac ctatttttag tctatacatt taagaaaggc actgatgtgt attgccttta 900
atggtccttt tccgcagcag tgatatgaca gatttgatca gaaattctct tgcttgagag 960
attttttttt gtctctgtgt gactacatag tttcaaactc ctctttatct catgatgata 1020
tataaattgc ttttaattat attaaatttt tatttttctg catcagcttc aagtacatta 1080

```

476

```

ttttgtttcc ctttcctggt tgagccgctt atgccatttc tcacagaggg gaagaaatac 1140
gtagttgctt tcattactct tattgcttct ttgctgttgg ggtgtgtgaa gtgagcattg 1200
attttagtgc tgagaatgta aacggactta caggatgctt ggattagtca tcacagggtc 1260
ttatgacttt gctaccacag ttgatataatt tctcctcaaa cctgttgccc taaggaatat 1320
ataaaatatt gttgatattt ctaggtggtg ttatcaagga gaagaaattc ctgccttgac 1380
cagatgtgtg gagcatctac aaatgaatga atagttattt acacacaaac cactgtgtac 1440
aaaagcgtcc atggagctgt cagtgtctcg agtgggtatta tgaggcctca ggtn      1494

```

<210> 699

<211> 303

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (293)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (295)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (300)

<223> n equals a,t,g, or c

<400> 699

```

gaaaggggttc aagtaaatgc aaatgatgtt ttggcaacct tttctcaaaa gatwctgcat 60
tggaatacag actgtaatat taaactacta tgtgtatatatt gtttctacas ttgtatacac 120
cgtartgtct tttacaggta tataagggtca atggccctar tctaattcag atttaaaacta 180
gtgcttgccct tgtaactctg caagtgatca ataactctctt aatactgaaa gtcmaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaagggcggc cgntntaaan 300
gag                                          303

```

<210> 700

<211> 547

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (540)

<223> n equals a,t,g, or c

<400> 700

```

gcaccaattc tggaatgagc ccaaactgag acgcagggga cctgagttct aggcctgggt 60
ctgccgtggc ttgctgacct tggagaattg gagaagcttg tgccctgctg gaaagtggga 120
tggcagtagc cgcttcatct agtagtcggg gagatcaaga gaggtatggg acctgaagag 180
gatggcagac tgtgcagtgc ggtgcacacc ggtctccagg ttgttttcac cctcctgtct 240

```

477

```

cctcccagga gctaacgtat aaagctgagg ctccggccagg gactgtgata taccacatc 300
cccggaaacta ggtgatcgcg gtgcaggaac cagggtgtgcc ttccgcgggat ccatgccttg 360
aggcccagga acgccccgcc gccagcatgc cgtgggacgc gcggcggcct ggggggtggcg 420
cggacggcgg gcccgaggcc tcgggcgcgg cgcgctcgcg agcgcagaag cagtgccgca 480
agtcgtcgtt cgccttctac caggcgggtgc gcgacctgct acccgtgtgg ctgcttggan 540
gatatgc 547

```

<210> 701

<211> 2401

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (583)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2342)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (2354)

<223> n equals a,t,g, or c

<400> 701

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ctacatccag tgacctatca gggatgcttg ttattttata caagctgctt tgttatcata 60
tcagcattct cttcagccag ctccaaggca gatagtcacc cctctctctg tgtgggtggg 120
gtgggagcag gccccgtgga gggagcgggtg ctgaggacat gtccctggcg ttccgatgct 180
gctccatcga ggacccccctg gcctcaggag gaaggagcag gcgatgcagc cccttagtgt 240
ggtcgtgttg actgacaggt ggctgatgcc tgagcgcgcc ctcttcttsc rtcttaggag 300
acaccgtggg gaagaggaag cctgcttctc tgatggcccc tctgaagcgg aaggaggagt 360
tctccttggt caaggtgtct ratgatgaat ataaagtaac aatctcgcct casctgctct 420
tggccacca gcgcttcctg tcccgaraag tggatgtatt cagcccgtg cgcattctctg 480
agaaggtcct gctgcacctg ttgaagcatc ccagtgtcaa ccaggaagtg aggtttgacg 540
agagcaaccg gctggccaca caccactacc tgtaccagcg cancagccgg tggattactt 600
cattctcatc ctgcagggca gggttgaagt ggagatcggg aaagaggggtc tgaagtttg 660
gaatggggcc ttcacgtact atggagtgtc ggccctaact gtgccatcct cgggttccca 720
gtccccggtg tcctcgtctc agcccatccg ccattgacctg cagcccgacc cagggtgacg 780
cacgcattca tctgcgtatt gtcccgaact caccgtgagg cgctctctga tctgcagctc 840
atcaagggtta cgcgactgca gtacctcaat gcactcctgg ctacccgagc ccagaacctg 900
ccacagtccc ctgagaacac cgacctgcag ttattccagg cagccagacc aggtccttg 960
gtgagaagac caccacagcg gcagggtcca gccacagcag gcccggcgtc ccggtggaag 1020
gcagccctgg gcggaacca ggcgtttaaa cggstcacta ggcagcccca gatctgggga 1080
acaratgagc acgtggggag ctggagttag ctgagcagaa gttttgtgcc cgctgcccc 1140
catcccctcc aggccacgtt ttagatggcc cttgtagtgt cgggtccttg gtgtcctcag 1200
aactagacat caatgcctgg atccttcagc cggccctgcc ctcttttagg agacaggagt 1260
caccagggca cagcctccag gccgcctca ggaaggaatg aaaggaatgc catcatctct 1320
agttcccagg gccagcctt ccccttctcc cccggggcag ggacagtgcg gcattatcag 1380

```

478

```

attcagacct ctttgggctg agccaccttg tgagtgcagt tactgccttt gtgtggccgt 1440
gacctctatt tgtttgcttt taatttgcca acctatcgct gctggcagca ctttttgagc 1500
aagccgagag caccattttt ggctgggggt tcagatcgat ggccttgtec atgttgctct 1560
ttctggcttc cctgatggtg tcatgtttca gcgcatgcgc ccagccttt cccatgtgcc 1620
aaaccagaag ctccactgcc cgtaggctgt ccctgtagcc ctgctccctc cctggaggct 1680
gctcttctga ttctgagagc tggcctagtgt gtgctgaggg cccctttctg cttctctgcc 1740
cacctgctga gttgccactc gcagtgttgt cagttccctg gttctgagaa gaggatcatgc 1800
ctgggaggaa gggatcgta tgctgcatcg aatcctctct ccgccgtgtg gccccagga 1860
gagtagctgc ctgttgccac tgctccacac ctccccacag cctccctgca ggtgctgtgt 1920
ggccgtgatg tgcagagagc agtgaggag gggtcatgaa ccagggtgat cctctttaa 1980
aaaaaaaaag tttttgttat atctctaraa catttcaagt cttttccttt ytttctgttc 2040
ctagctatgg gggttttagag aagtgggaac aggaaggcat ttgtcttttt cttctagttt 2100
actacatttt ccttccgtag ttcttcagct gtgtggaaac gggcatcaca aggacatagg 2160
atcatagatt gggtagggag ggaggaggat ttctggaact tttctcaaag gaatttggac 2220
ccttataaat gggactgaag gtcaaaacaa cagtgatatc cttgcttaga aattgtcctc 2280
aaggaataaa ctctgagagc aagcccgggt tggaacaga tgctttaaaa tcctctctcc 2340
anaacagtgg tttnttgttt gtttatattga gatggagtct cactctgtca cccaagctgg 2400
a 2401

```

<210> 702

<211> 716

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (654)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (689)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (702)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (712)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (716)

<223> n equals a,t,g, or c

<400> 702

gcttggccta tgaaaagatt tagacaacca gacgataata gtgggaaatt tcaacactcc 60

479

```

actgacagtg ttagacagat cattgaggca gaaaactaac aaagaaatgc tggacttaaa 120
ctcagcactt aaccagttga aactaataga caaatacaga acactccacc caaaaggaat 180
gcttatacat tgttggtgga aatgtaaatt agttcaggca ctgaggaaag cagtttggag 240
atctctcaaa taatttaaaa cagagctacc attccaccta gcaatcccat tattgattat 300
atatccaaag gaaactagat cattatacca aaatgcactc atatgttcat caccatgcaa 360
ttcacaatag caaagacatg gaatcaagcg aggtgcccat caatgatgga ttggatgaag 420
aaaacatata tgctatggaa tactacacag ccctaaaaaa agaatgaaat caagttgttt 480
gcagcaacat aaatagagct gaaggccata gtcctaagta aattaatgca ggaacagaaa 540
accaaatact acatgttctc acttacaagt gggaaactaaa cattgagcac acatgaacat 600
aaacatggga atgatttgac actgagcact actttgaggg gaagagagag ggangttgac 660
atgggttgaa aaaacctacc tattggggna cctatgtttg cntacctggg tncaan 716

```

<210> 703

<211> 411

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (331)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (338)

<223> n equals a,t,g, or c

<400> 703

```

gatcctaaat gcttgggacc aaagtatttt ggattttttc agatttttga atatttgcac 60
tatactttta tgagcatttc ctttgagcat catgttgggtg ttctaaaagc ttcagatttt 120
ggagcatttc acatttttga ttttcagatt agggatgctc agcccgtata gggaaacttt 180
agaacattat agaaatgaac aaaaagaaaag caaacttgaa tgcagccata taggacatat 240
acttttgggtg aagttagagt aacagtggat ttacttttcc cttgaaatga caaacaaaaa 300
aaaaaataca gaaatatgaa gcagtgggtt ncaggcgcnca gagtcaatga tgaaaaacaa 360
tggcctgagc ccaatgttgg ctccagcttg agaatttcta ggttgccat a 411

```

<210> 704

<211> 725

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (565)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (698)

<223> n equals a,t,g, or c

480

<400> 704

```
ggacawtacc aggcaaatat tgcagaactg actcatgcaa acaaccgagt ggatcaaaat 60
gaagcagaag taaagaaact aagattacga gtggaagaac taaagcaggg actcaatcaa 120
aaagaagatg agcttgatga ttccctgaat cagatccgta agctccagag gtctctggat 180
gaagagaaaag aaagaaatga aaacttagag actgaactca ggcacttgca aaactggtaa 240
ttttttcaca aaatatgctg aattaaagat tagggcctta aagacatttc catatccttt 300
tcttaaatat cagtaaaatt gtttttatta actagaaata ttaatgaaaa aaacgtagac 360
aatacacaaa ttaatgggct tcttcacttc ttctaatttt tgcctaacag atactgcata 420
ttctcaaaaa gacaatttaa atgtcattta aaaacaactt taattctaag atgtgtaaat 480
attttgaaag tcaaaaaggg ctttcagaat actttttaca taaaatctga agagttataa 540
tatcggttaag aaaaagtagt tgaanaccat acaagacgct gggtcattaa taagaaaacc 600
attgacttta gtataaagta ctggtttggt taaagattgg taaactttta tgtacgtggt 660
gtctatgtgg tggggatggc aggttgattt aacaaaantg aatccttcta gaggtgtacc 720
attac 725
```

<210> 705

<211> 332

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (302)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (306)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (328)

<223> n equals a,t,g, or c

<400> 705

```
ggggcccaca cccaggtggg ggcccatggg gtggagacag agaggtggct ttaaaaaaca 60
cagctgtact aattcttcac tccatgggcc cacaccaggg tgggggagga ggaagccact 120
gcatctgttg gctcagggcc ccagcctgtg cgagcagggc gcctgggctg ttgtgtctcc 180
tgtctgtgcc gatctctatt aaaggactcc ctcttggtgg gcaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
angggnggcc gttttaagg atccaagntt ac 332
```

<210> 706

<211> 726

<212> DNA

<213> Homo sapiens

<400> 706

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ggcagaggtg actgtcaaag cttgaccctt gctttgatcc cctttgttga gacaggttct 60
tataggacct ggattctcac cacatcctct gttctgttta gggaacacaa aggttaagctc 120
```

481

```

agctctgtgt ccaggagtag cttatagtag tctcccttaa ctgtgtctgt ttcaacttga 180
tccaagatca ggattagtag aagcttgtaa aaaaaaaaaa aaaagtttwt tttttacaaa 240
atagaccaga tgcactttga agttaaagtg catgcttaac catctgcaat tcctaagggt 300
gagctcaatg catcacatgt agtagatgtt caagaaatgt ttgttaaagt ggcagttgta 360
aacagagaca gtgccgtgtt tatttcgttt tccagaaagg cacctgactc cttgctttgc 420
acataacagg tgctcaagaa atgttgaaga aaaaagcaaa ttgctttgaa tgcagtgtat 480
cctaaaacca gatttccagg ttgccccagt actctgtaca ggcctccatt ttggctgtta 540
acacagtgtg tcttttgtaa cattaaaatg ggtccacgtt tgcattctct ccgaaattat 600
aaactcctgg gagtgcaggg atgtgtctca tacattcttc cttgactttt ccacagcata 660
ccttagcaca gagttggata tgtagtagat gttcaatgga gaattactga attttcttaa 720
aaaaaa 726

```

<210> 707

<211> 553

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (325)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (520)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (529)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (531)

<223> n equals a,t,g, or c

<400> 707

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gggttgggcc aatggggtcag gcatccagtc agctctgggt aaggggtgaa ggagtcaggt 60
gttaccaacg tgggtggcagg ggccaccttg aagctgtgtt ctgtgccatg gaagaaggaa 120
gaggaggagg aagctaagct ggaaggggaag gctcctggag tcagtagttg gaatctcaga 180
tgggaagaaa ccttaaaagt catctgggtc agtatcttcc aaagcatgtt ccatgaactt 240
gttttccaga aatgggtttc tgggtctggtg agtggggagt csatgagagt ggcagttgtc 300
tattttgttc accgatgtat cttangtgac taaaacaatg gttgtcacat ggctggccct 360
tcatatttgn ttccagatgg aagactctct ttctagtggg ggaacattag ttttgactg 420
tggttgggaca acctgatgta gtgaaaacaa gcctggggcaa tgaaatcaac agattggaat 480

```

482

tcaattccta attgggtcat tggatgactt tgtgaccttn ggcaaaatna nttacctttt 540
tgaatttgaa taa 553

<210> 708

<211> 255

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (243)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (251)

<223> n equals a,t,g, or c

<400> 708

ggctgcaggc agcaacgcaa gtcaggctga acattcagtc tccagagaca gctgtgtgga 60
gcaaatcaga gttcatgccc aagtccccag gttggaatgg ctgtgccaaa atccattcaa 120
agggttttct ttttcattac taggtcagaa ctttttgagt caccttgga gattcaggat 180
ggggagagca aatttgaaca aaagggtttt cttatatacct gagattgagg ggtaggggggt 240
gtncaacctg natag 255

<210> 709

<211> 1075

<212> DNA

<213> Homo sapiens

<400> 709

ggccggcctc caggctgaag aaggaccgc cccggccttg acccggggccc cgccccctcca 60
gccggggcac cgagccccgg ccctagctgc tcgccccctac tcgcccggcac tcgcccggct 120
cgcccgcctt cgcacccagt tcacgcgcc cagctatgtg tccccgagcc gcgcggggcgc 180
ccgcgacgct actcctcgcc ctgggcgcgg tgcgtgtggc tcgggctggc gcctgggagc 240
ttacgatttt gcacaccaac gacgtgcaca gccggctgga gcagaccagc gaggactcca 300
gcaagtgcgt caacgccagc cgctgcatgg gtggcgctggc tcggctcttc accaagggttc 360
agcagatccg ccgcgccgaa cccaacgtgc tgcgtgctgga cgccggcgac cagtaccagg 420
gcactatctg gttcacctg tacaagggcg ccgaggtggc gcacttcatg aacgccctgc 480
gctacgatgc catggcactg ggaaatcatg aatttgataa tgggtgtggaa ggactgatcg 540
agccactcct caaagaggcc aaatttccaa ttctgagtgc aaacattaaa gcaaaggggc 600
cactagcatc tcaaatatca ggactttatt tgccatataa agttcttctt gytgggtgatg 660
aarttgtggg aatcgttgga tacacttyca aagaaacccc tttctctcca aatccaggga 720
caaatttagt gtttgaagat gaaatcactg cattacaacc tgaagtagat aagttaaaaa 780
ctctaaatgt gaacaaaatt attgcaactg gacattcggg ttttgaaatg gataaactca 840
tcgctcagaa agtgaggggt gtggacgtcg tgggtgggagg acactccaac acatttcttt 900
acacaggtaa ttgtttcaaa aggattgcat gggccaggat gtccagataa gcactgtgtc 960
tcttttgctt ttgtaactgt tattactctt tttactgcta tttaatatgt aatgtatatt 1020
atatgatcta taatatatat gtaatatata ttaaattggga acatgtgcaa atctt 1075

<210> 710

483

<211> 753
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (706)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (741)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (746)
 <223> n equals a,t,g, or c

<400> 710
 gaattcggca cgagctcgtg ccgaattcgg cagacgatac caggtgctgc agaagggatt 60
 ccatgaggtg cgcaaaggcc ctacttccgc ttccaccttg gagacggcga ctctctgcgt 120
 actgattgga acatccgcga aatgatacgc ctctctgcaa tgctattggc cgaaatgcat 180
 gtcaatctcc cagcgtcttt atccgtgttc cttgactctg ggcaacttaa aagccctaata 240
 actttttactt tcgccacaca aagaggttct tcttagtgga gggagagcag atgtagggca 300
 tcctaccgag aatttccgga accacgtgcg agatgatgcc agtcatgaac gtctccgcgc 360
 ttccttttcgc tttggaaata tccttaagta gaaaagaaat tttctgagct ttgcctaaaa 420
 ctagaatctg tgttgaggtt tttcaaaatt aagtaacgcc agagacatac tgtgacgtga 480
 ggaaacgctc ttaaatgaaa ttttaagatc tatttgagaa acatgtacta aaaatgtact 540
 gacctcctat taatgccagg cgctatgctg aattctgggc cttcacattg tccttccatt 600
 attagaactg aagcccagat tatttgaaac aaaaaataaa cttcaataat ttattaaaaa 660
 aaaaaaaaaa aaamctcgag gggggggccc gtacccaatt cgcccnaaag ggagggcggat 720
 taaaattccc tgggcccggcg nttnanaaag gcg 753

<210> 711
 <211> 779
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (721)
 <223> n equals a,t,g, or c

<400> 711
 aaattaaccc tcactaaagg gaacaaaagc tgggagctcc accgcggtga cgaccgctct 60
 agaactagtg gatcccccg gctgcaggaa ttccggcacga ggaacagctc acactggctg 120
 gcactgctaa gcaggtgcgg aggggagtc gagacccccg gatggagggg tgtggtggac 180
 ctcaagtttg aggccgagag tcctctggcg ccmcccacag agctcctgga gagactgccc 240
 agctatgact ggcttcttca agggggcaga ggacagatat tcttcccacc tttggaggcc 300
 ccagggaggg cccaggagca aaggtcctgg ccctcgttcc tggaaacacag gagatgccct 360

484

```

ccccagttgg actgctgagg gctttaccac taccgtggcc tcagtttctc gcctgcacgt 420
tgaggaggct ggctggcccg cgtragtcca caggcccttc ccagaagccc ccgcctctct 480
gttcgggtccc ctgcagagtc cctgcgaatg acggaggagg tggcccggga aagccctcct 540
cagctttgtg gactstaagt gcctgctaca gcgaakktgg actggagacc tcgtcatcca 600
ggagctgaag cggcagaccc tctgcaggta ccgtctggag accttttagtg aatccaggat 660
aagcgaagtg gacatttcaa ccctttacta aaccactctg tggaatgggc cgcaaagagg 720
ngcctcccc aggggtcttgg gacatcaagg tttcaaggtc cttccgatgt ttttcagga 779

```

<210> 712

<211> 570

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (296)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<400> 712

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ccctcactaa gggaaacaaaa gctggagctc caccgcggtg gcggccgctc tagaactagt 60
ggatcccccg ggctgcagga attcggcacg aggagccact gtgcccggcc tgccttggtt 120
attttcataa gattttctaga attaggttca ctgagtttaag tgatataaac atttttgagg 180
cttttgctac atattttttag attgctctac aggagtggtc tagtttatac acccctacca 240
ggtcgccatg tatgttttcta cacaatagcc ctgctcgcaa cagatagtat attttncnct 300
gttgcccagg ctggagtgca gtggcgcaat ctttcttggc tcaactgcagc ttgaaatctc 360
aggctcacaa gtgatccctc cgctcagcc tcccaagtaa ctgggactgc aggcattcac 420
caccatgcct ggctaatttt tttttttttt tgtagagatg ggtttttgag accagcctgg 480
gcaacatggc aaaactccgt ctttactaat aataccaaaa ttagctggga tagtggtatg 540
tgcttgtaaa tcccagctac ttgggaggct 570

```

<210> 713

<211> 877

<212> DNA

<213> Homo sapiens

<400> 713

```

gccttttact gtagaccctc tccagagaaa ggagctcggg tcttccctga gccaaaggtgc 60
cagggtccca gaactccctt cactgcagac cctctccaga gactggggag agggtctctg 120
agaacctggg tcttgcttac tgttctccct ttgggccctc cttcccaaac gcaaacaatc 180
caggatccac tcagcgtcag gcccaatgga aatagtgaag cagtgatatt ccctccccctg 240
cctctccata gcctgggtct ttgccctctc ctttgetctt ctcttcccc atagccacct 300
caaatacctg cagcctgata tcttcattccc ttcattccaga ccttttctct cctagtggta 360
ttgcaaactg aaagtggaca aagacttaag gtaaacctgc tcctcatggg ggaatgcttc 420
caaatactgg aaggaggact ttagggcaga gtactactaa gaggcttctg cttatagatc 480
agtgggcctg aaagaagttt ctctaggttc tggttgtgtg ctgtacgarg tgtaggtagt 540
aataatactc ttgtcagcca cagtgaagcc ccaagctagc cgggataggg gactgacctt 600

```

485

```

gtacaggcag catggagaaa ctaagacaga gtgtcctgcc caagtgatgg cactggggag 660
cagtcactca ggtttatttc caccagggcc caagaaaaaa agaaatgagg caacctaaaa 720
ttccatcaag atagatacca atatccaagg tgcttgggtct tagcgggtgtg ggacccacgt 780
taaggctctt ggtgggaagg tgggaggtgt tttcagcatg agatagggtt caggctgtga 840
atcagagtct agagcctaag ataaaaaaaa atgtgcc 877

```

<210> 714

<211> 656

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (496)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (558)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (592)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (620)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (644)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (654)

<223> n equals a,t,g, or c

<400> 714

```

gtgttgtgcc tgttaaaaat tcagagccct gaactccatc ctggtataaa gcaaaaataa 60
aattttaatc cccttgacca tcccaatggc cccttctctt ggcaagggca ttccaaagtt 120
aaatggaaaa actagtttta gaccatgatg ggaagggggg gttggaactc cttccttttg 180
gaattactga tagaacagac tttttaagtc tgataagaaa catttacaat ctattctcaa 240
agtctgctac caggagggtt cacctgcatg ataaaacctt ggtctccaca actccttata 300
ttaaccaga cagtcctaag tttttagaca ataacctaac tgkttcaatc catgccaatc 360
aataagtctt taaatctgcc tatgacttgg aggcccttcc ttycaagtag ttgkcctgcc 420
tttctggacc aaacgaatgt acatcctatg tgtatctgat agatgtctca tgtctcctaa 480
aatctgtaaa actaanctgt ccccaaccac tttgggcaca tgttctarga ctyctgaagg 540

```

486

tgtgtacaag gccgtggnc a cttatatattgg cttaaaataa tctcttcaaa tntttaaaaa 600
 aaaaaaaaaa agggcggcgn tttaaaggat ccaacttacg tacnctgca ttcnaa 656

<210> 715
 <211> 1530
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (11)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (25)
 <223> n equals a,t,g, or c

<400> 715
 ncctcactaa nggaacaaag ctggngetcc accgcggtgg cggccgctct agaactagtg 60
 gatcccccg gctgcaggaa ttcggcamga cggggtccgg gtcgccccta gctgtttcct 120
 actcacccaa agccccgcac ccgccttttc tctctctcct ctggcaggat gaggcgtgca 180
 ggccctgggtg aaggagtacc tcctggcaac tatgggaact atggctatgc taatagtggg 240
 tatagtgcct gtgaagaaga aaatgagagg ctactgaaa gtctgagaag caaagtaact 300
 gctataaaat ctctttccat tgaaataggg catgaagtta aaaccagaa taaattatta 360
 gctgaaatgg attcacaatt tgattccaca actggatttc taggtaaaac tatgggcaaa 420
 ctgaagattt tatccagagg gagccaaaca aagctgctgt gctatatgat gctgttttct 480
 ttatttgtct tttttatcat ttattggatt attaaactga ggtgatgcat gtaattgtga 540
 atttggaatt tgtttcaact taatggcttg cagtaccact ttgataaaaa tcagcatcaa 600
 aacattccta gtgttcaaat actgtggcat tttccattga aaattgctga attttgett 660
 ttttataaat cacattagtt aatacagtggt tctttgaata ctgtttctta atgactcatt 720
 ttagccccccta ttttcagggg tagtgagagg gtgtggctcc actaatttcc agtttgtttt 780
 tctattgttt gccaaactgtc agattaaata gcattataat attttgttgt aatcataaat 840
 gcaggtttat gtcccatgta aggaaactta gtgggagagt aacagaatgc ctggagagcc 900
 tgactctgag ctcttgaagt agtcagccag tttgtggtaa aatggtaatt gaattttcct 960
 aactgcatca actgtaatga tatactccct tctcctcctt tatttagtta aaattgtagg 1020
 ctgatttctt tttacctaca atcttcctaa taatttttga tgataatgac ccctcatttc 1080
 tttctgcccc aagacctcat tctttaaata aaacttgcta ttttggcata tttctggtag 1140
 ggcccatgtc acatgtgtat cagtatagtt attatttcat attaaacttta tgaattctct 1200
 tgacttggct tataatagtt ttatgatttt tactacatag gtagcacatt tatcatttgt 1260
 gacagaataa tgtgaagtta agtaattact gaactttaaa tggaaatagt atgcaagaaa 1320
 ctcaggcatt gaacttgaag ataagagtat tattgcttta atccagtgt tttgtttatg 1380
 gaaagaaaaa cacaaaggca gactgttgag taaaaaatat taaatattgt taaatattct 1440
 gtatttttga atttatccat ttataggctt caaaagtaaa tttttaaata aaatatatta 1500
 gtcgactgtg aaaaaaaaaa aaaaaaaaaa 1530

487

<210> 716
 <211> 742
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (709)
 <223> n equals a,t,g, or c

<400> 716
 tggctccaaa agggaattgg gccttaagcc aagaatccgc cagaggggggt aatcaactct 60
 gttactttctc cccctgccag tcagaccggc cttcgggtgag aagggtgcgtc tagaactgag 120
 gcgtgcggcc aatccgactg ttccggtttcg ctgcctcgtg ctacccctac agcctcgaac 180
 actgacattt aaaagggtaa cagctgggag gcaggggaagg ggcagccgca cactttcgga 240
 gtgcctcgcg gtcccgtggc cggtcggggc ctccctggctc acgttccagc ttgcggagct 300
 ttgggacaca tctttcctag tcagttgcgc tcgttcctat ggcaaaagag aacttcagct 360
 tcggtttttcc agctcccaaa cagttaagtg acttcctgca aacgctacag tcccagcaac 420
 cagccttcca atcaaaagta agttggttga tgctactggc attggctcgg ccaatcaca 480
 gggcggttccg aaagcaagcg ctcgacactt gtaaacgcga agagctgtag tgaaactgga 540
 cacatctttg tattttgtgt tgctggtagt aaatttgagt tatggatgag aggacagggg 600
 tgatgaataa atgcagtgtg aatctataat taaaaaaacc ccattatgtc aggataagtc 660
 caagaataaa cacaaatgag taagaaaaaa aaaaaaaaaa aaaaaaana aaaaaaaaaa 720
 aatgaaaaaa aaaaaaaaaa ag 742

<210> 717
 <211> 820
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (23)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (41)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (802)
 <223> n equals a,t,g, or c

<400> 717
 ctactaagg gaacaaagct ggngctccac cgcggtggcg nccgctctag aactagtgga 60
 tccccgggc tgcaggaatt cggcacgagc ccaatacagg catgaaccac tgcacccacc 120
 tacttagata tttcatgtgc tatagacatt agagagattt ttcatttttc catgacattt 180
 ttctctctcg caaatggctt agctacttgt gtttttccct tttggggcaa gacagactca 240
 ttaaataattc tgtacatttt ttctttatca aggagatata tcagtgttgt ctcatagaac 300

488

```

tgcctggatt ccatttatgt tttttctgat tccatcctgt gtcccttca tccttgactc 360
cttttggatt tcaactgaatt tcaaacattt gtcagagaag aaaaaagtga ggactcagga 420
aaaataaata aataaaaagaa cagccttttc ccttagtatt aacagaaatg tttctgtgtc 480
attaaccatc tttaatcaat gtgacatgtt gctctttggc tgaaattctt caacttggaa 540
atgacacaga cccacagaag gtgttcaaac acaacctact ctgcaaacct tggtaaagga 600
accagtcagc tggccagatt tcctcactac ctgccatgca tacatgctgc gcatgttttc 660
ttcatctgta tgttagttaa gttttgggta ttatatattt aacatgtgga agaaaacaag 720
acatgaaaag agtgggtgaca aatcaagaat aaacactggg tgtagtcagt tttgtttgtt 780
gaaaaaaaaa aaaaaaaaaa anctcggggg gggcccgga 820

```

```

<210> 718
<211> 463
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (318)
<223> n equals a,t,g, or c

```

```

<400> 718
gcataacttaa aaagtacaaa agtccagttc tccaggtaca tgggcaattg tatttgttta 60
tagtttagat tcataacctt tactgaatgt cagaaacaca aaaacttatr raaataaaat 120
atatttgctc ttgagataca tataatttat tttaagtcaa taatacattt ttagttaaag 180
gtgtatttat gatcagttta ttgtacttgt gctataattt tctttattat taaataaaat 240
tttgagacac ttttaaaata ataaaaacca aaaagtggta ttttaaactc agtttctaaa 300
tgatgattga ctaaagtngt gtgtgtgtat gcagacatac gtaaatacac acatacatat 360
aggctatgat gatgacaact atttacttca aattagatgc cttctgtatg tatattgacc 420
agaatacatt gctcaagtga tttttaaata tttgtataat ttt 463

```

```

<210> 719
<211> 540
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (153)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (154)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (155)
<223> n equals a,t,g, or c

```

```

<400> 719

```

489

```

tttactagtg tattatcttt tatTTattat gtaaagcttc tttccttcct tttccccaat 60
catgatatat tagtgacaaa atattacaga accggactat cagtcactta aaaaaacagt 120
ataattctaa tgctagtaaa catgtaattt aanmnagttc tggaggacag ttgtctttga 180
ttaaagcccc accaaaaccc atttaagtat ttaatgtaca tactattcat attattatgg 240
cctgtaaaca ctaatatctg agcaatcaaa ctgttttatc taccattttt gatgaaattt 300
gaataaaagt taaaaacgtg taagcctttg aacaaatgta tgaaagcttt aaaagatcat 360
tagcactttt attttgttta caaataagct gccatttaaa aaaataaaac ctcactactt 420
gaacataaag ctcccaaaca atattgtatt aaaatgtact atattgacct aggaggatat 480
aggaaattat attcacctga ttaactggag cagtttcaca tagtggaat actttttgct 540

```

<210> 720

<211> 837

<212> DNA

<213> Homo sapiens

<400> 720

```

gcgggcgccct gcggactgga gacccgggag gacggacgcg gacgcgggct gctcgtcttt 60
tacggccctt caacgcccac cacgaccac tctctttgga gacccgggc gacggtgggg 120
ctcttgggca ttctgagact gcgcttggtg gagaccccg gcgacggtgg agctcttggg 180
cattctgaga ctgcgcttg tggagcccc tactggccag actggatttc tcagcctgcg 240
actcagcccc aggctacacg aaagaagcca gacctgggta attcttctag ttcttttttt 300
tttttttttt taattgcact gggaaacttc cccaatctcg gcccagttc tttctccaaa 360
ctaaggagtc atggcctttt gcccgctagt ccagtatgca cccgtaggcg cttcattttc 420
tctcctcttg tcagctttta ctgcctcctg aggccttcgt cttgttcaca ctgagtgtcc 480
agtccctcca aatccggcta cactctactg gcaaggagca cctgggcat gttttagaga 540
tcacccgagg actaacccca aaagtttatg aagagaaagc agaggccgag stgaagagat 600
rgacccgggt cacaccagc taaaggcagg atctaaactg aaactgggtg cagatctggg 660
tgcttgcac ccctgatatc aggtgaagca acmctgggca ggatagagca gagtgaggtc 720
agagtgtgaa gatccagcct gatgccccaa ctgacgcty ttcattctcc cskgctccat 780
ctgtaaacgt cmcggttaat ccactactt tattgcatta tatagagaaa taaatga 837

```

<210> 721

<211> 738

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (736)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (738)

<223> n equals a,t,g, or c

<400> 721

```

gttttctgct attaagttga gctgtttcaa gatagaatac cggattaggt tttgagttac 60
agtagtccct ccttatctgt ggggtgtaag acctacagt gatgcctgaa agagccaaga 120
gtattgaagc cttgtttttt cctatacata cgcaactgtg ataaagttta atttataaat 180
taggcacagt aagattaaca gcaataatga gaacatttat aactagtaag ttttgtgaat 240

```

490

```

gtgggtctgaa aatactgtac tgtgggaaag tgaagccatg gtaagggagg attactgtat 300
atcttcattt tgggtcttaag ctttagaatt atgggtaact aagaagccgt ttgagatggg 360
tatattccat gactaaactt acctgggaat tgtattattt acggggaagg cagytatttt 420
aaaaatgctt gtttaaggaa gcagttgctg tatttgaatt aagataactt tcattagaga 480
ttattagtga aggttggcca tctggttggc tatgtgctta tagaattata gaagtaagct 540
atttgttgac aatttttagag ttaaatttga caatcttggg tacctaccaa actttaaaat 600
agaagtcagg atttctgtta cccaaccatg ggagcyttgg ktgtcycata ttcggtaaga 660
taatctctgk taaatagtgg ggtattagaa caaatggact taagtaaaaa tcttcaaadc 720
atctttaaaa aaaaanan                                     738

```

<210> 722

<211> 506

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (394)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (470)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (481)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (494)

<223> n equals a,t,g, or c

<400> 722

```

acaagtagct gcagtagcgt acggaattac agggtagacc caagcgtacg taaaatttaa 60
aaacaaagga ctatttaaaa atacagttta ttaacaaacg tgaactactt tctgttacat 120
taggtgttcc ctagtgtttc ttaatttctt tttagaaagt gtatttttat tagtattttt 180
ccggtgaaca gaagatttgt ttggatttaa acatttacta agacagtacc tattaggaaa 240
accaaataat gcaaatgggc aattcgattt taatttctca aaagatactc tgttatccag 300
aagattaaaa tgcctacatt gagtgcttaa aaaaaaaaaa acmactgtga tratktgagc 360
agaatggcca gtaagttaag ccttttttga tccnggtaac ccagggtatc catttaccat 420
ggaaagggga ttccccaac tactggccca gaggggaagt ttggtttttt aaatttaagg 480
nggggaaatt ttanccctat aaaatt                                     506

```

<210> 723

<211> 540

<212> DNA

<213> Homo sapiens

491

<400> 723

```
taaggggatt ctcccagctg ctaaatttaa acagtaaata tcacattttg tcattaacac 60
agctataact tgccgtgggt ctcagattta ttttggaacta ttttgatgcc aagtgaatat 120
aagagyttgt actgaaacca tttatttctt tctattttgc tatttgcaaa tgcttggtat 180
cttcacctaca tgaagtggca gtaacctttt tcacatttaa gctacccttc tacttttgaa 240
gtgatttgca gttactcatc tgagacagca tcagtatttg actaaatcat tgtttcacaa 300
ctgaatagtc ttgttctttt agtagcaatg aaatcctaag ctcttgaggc cattcacctg 360
ccaacctgac catactgctt tcaaaagtct tttctcatca gtagaatcta ttttggtcac 420
ttctagtcaa tgaaaaatgt aaacttttag gagagaatgt ttcctaggac tcaccactc 480
cattcaatgt tacatataaa atagtgtgat caatcacaaat gtccatcttt aaacagttgg 540
```

<210> 724

<211> 448

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<400> 724

```
cccacgcgtc cggacccacg cgtcgcgcct gctctcctaa gataaccacg aaaggagtgg 60
tcatatactt tggaggatag ccatatagat acttatcagt ggcctgtgat tctttcctcc 120
agccccattc ttcttagatg attggaaaaa cacttaaggg agcattaaga ggctctgatt 180
gctactcagt gatatacgtc agtctgagag gacagggcct aggtaaaaaa gacttgtaac 240
gatgattcac aatgaccctt actgtcactt catgtaagta tagagggctc aggtatacca 300
ggctggcaac tgatggataa acggcattat gctaaaatac aattttggat ttcataattaa 360
agtatctcta gaataccacg gaatacctta aaaggaagga atggcttcct gaacaaggnt 420
ggggaacctc ctcttaatt tgtttagt 448
```

<210> 725

<211> 1221

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (20)

<223> n equals a,t,g, or c

492

<220>

<221> misc feature

<222> (22)

<223> n equals a,t,g, or c

<400> 725

```

tattnctagg atatacccn antaaagga caaaagctgg agtcaccgcg gtggcggccg 60
ctctagaact agtggatccc ccgggctgca ggaattggca cgagccgaaa gggacacaat 120
gtggcatgac taagtacttg ctctctgaga gcacagcggt tacatatatta cctgtattta 180
agatttttgt aaaaagctac aaaaaactgc agtttgatca aatttgggta tatgcagtat 240
gctaccacac gcgtcatttt gaatcatcat gtgacgcttt caacaacggt cttagttttac 300
ttatacctct ctcaaattct atttgggtaca gtcagaatag ttattctcta agaggaaact 360
agtgtttgtt aaaaacaaaa ataaaaacaa aaccacacaa ggagaacca attttgtttc 420
aacaattttt gatcaatgta tatgaagtc ttgataggac ttccttaagc atgacgggaa 480
aaccaaacac gttccctaata caggaaaaaa aaaaaaaaaa aaagtaagac acaaacaaac 540
catttttttt ctcttttttt ggagttgggg gccagggag aagggacaag acttttataa 600
gacttgtagg ccaacttcaa gaattaatat ttatgtctct gttattgtta gttttaagcc 660
ttaaggtaga aggcacatag aaataacatc tcactcttct gctgaccatt ttagtgaggt 720
tggtccaaag acattcaggt ctctacctc agccctgcaa aaatattgga cctagcacag 780
aggaatcagg aaaattaatt tcagaaactc catttgattt ttcttttgct gtgtcttttt 840
gagactgtaa tatggtacac tgcctcttaa gggacatcct cattttatct cacttttttg 900
ggggtgagag ctctagtcca tttaactgta ctctgcacaa tagctaggat gactaagaga 960
acattgcttc aagaaactgg tggatttgga ttccaaaaat atgaaataag gaaaaaaatg 1020
tttttatttg tatgaattaa aagatccatg ttgaacattt gcaaataattt attaataaac 1080
agatgtggtg ataaacccaa aacaaatgac aggtscctat ttccactaa acacagacac 1140
atgaaatgaa agtttagcta gccactatt tgttgtaaat tgaaaacgaa gtgtgataaa 1200
ataaatatgt agaatcaaa a

```

<210> 726

<211> 220

<212> DNA

<213> Homo sapiens

<400> 726

```

tgtctgtatt tatttcttct ccaaggaaac agcctacatt ttccatgtgt ccatgtttct 60
gaggccgtgg gtgacagtgg gaattgcact aatggggggc caccaggcct gggggctggg 120
cttagcgcta gaccttgaac aaggcacttc acctgctggg ctccaatttt ctctctgtw 180
aatgaaaga kttgaactaa gtgatctcaa aagtttccaa

```

<210> 727

<211> 894

<212> DNA

<213> Homo sapiens

<400> 727

```

aattcggcac gagaggaaat ggcgtcgtgg cattgagggg catccctcct agaacctcca 60
ggaaaagctc gcggaagacg aggttctgcg gagagagagg ctccaagcag tctgggaagt 120
gtagtccagt tggcttagca gtatgttctg tggggggggg ccgaggttcc ggggaagggc 180
taggccggct tgaaaagaga ttatgactgt accttttaac tytgtagctg gaacacaaga 240
agtgtttgtt taatgaatga cgtacacatt taagatctgt ttggacgcgg aggataatcc 300
tgtgaattgc taatagttca ctgggttttg cccttagtgt tgacttcagt atgctgagac 360

```

493

```

ggaaaccaac acgcctagag ctaaagcttg atgacattga agagtttgag aacattcgaa 420
aggacctgga gacccgtaag aaacagaagg aagatgtgga agttgttaga ggcagtgatg 480
gagaaggagc cattgggctt agcagtgatc ccaagagccg ggaacaaatg atcaatgatc 540
ggattgggta taaaccccaa cccaagccca ataatcggtc atctcaattt ggaagtcttg 600
aatttttagag atggattatc ttgcatgcc a gagcgtgga atggaataaa atgatggcag 660
aagtacaaac cagattttaga gaattgagtg cttgcagtca agcagaatgt acctcctgca 720
gagacaaatc ttctgcatga gattactgat gcttcacttg cactctaagc tggaatccaa 780
actctgggtt gtctcttgaa aatttgactc tataaaactg atctgatttt ctgtttttta 840
aaataaatat attttttgaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 894

```

<210> 728

<211> 843

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (753)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (788)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (829)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (832)

<223> n equals a,t,g, or c

<400> 728

```

gtgctcttgc tccagaaaga ctcaactgctc acagctgccc agctgaaagc caaggggggag 60
ctgagctttg aacaggacca gctggtggct gggggccagc tgggcgagct gcacaacggg 120
acacagtatc gtgagggtccg ccagttctgc tcgggctctg gccaccacct tgtgcgcttc 180
tacttcctca ctctgtgtta ctccgagtac cttgaggatg ttctggaaga gctgacatat 240
ggacctgccc cggacctggt gatcatcaac tcctgcctct gggatctctc cagatatggt 300
cgctgctcaa tggagagcta ccgggagaac ctggagcggg tgtttgtgcg catggaccaa 360
gtattgccag actcctgcct gctggtgtgg aacatggcga tgccccctcg ggaacgtatc 420
actggggggt tcctcctgcc agagctccag cccctggcag gctccctgcg gcgggatgtg 480
gttgaaggga acttctacag tgctacgctg gccggggacc actgctttga tgtcctagac 540
ctccactttc acttccggca tgcagtacag caccgtcatc gggatgggtg ccaactgggac 600
cagcatgcac accgccacct ctccacacct cttctgacct atgtggctga cgcctggggc 660
gtggagctgc ccaagcgtgg ctatccccct ggtgagccct accataagtg ggggggtagt 720
gatgcaactg ggccctcaga ggacagggct canaaacaga atgggacaca gccactcaag 780
ggaagtanag gtcccttgaa ggactcctgt ggcttctgca tgcaccttnc tnaacccttg 840
aga 894

```

494

<210> 729
 <211> 752
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (696)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (708)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (728)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (746)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (751)
 <223> n equals a,t,g, or c

<400> 729
 caatgaacag acatttttata tcaactgtaga tacaaaatat taaagcagtg gtttcagcca 60
 attaaatcaa tctgtgagag tggagcccag gcctgccatt tttgttaaaa gctccccagg 120
 tagtttcta atgagccaaa gttgagaagc aaaagtattg taaattattt ctctcaaatt 180
 tagagttatt acagttttata tcaaattcaa aatgcttaat ttgcttttgt gataaagagc 240
 aatagaaggt ggtgagattt ctaaaaatta ggccctccagg tatgcatttc aaatgtagac 300
 ttctttaaatg atcgggatca gmttgtgtctg cctargtagt ctgttttttt ttttaatgtc 360
 atttacataa tcatttttcca tttcctaagc acaaataaag ttaacatctg agtttagcttt 420
 tgaaagacac ctttttgtgg ggtarggact actgttacaa atcataaact garggttatg 480
 acatttcttt atacttactc caagatgcag aaactgcttt tcacatagtt ttactcatat 540
 tttacaatgt gattaaggga ggctaaggta gtttaatttc atatatgtac attttttacc 600
 taaaaatatc tgattaaagg tattatttaa taataattaa aatccgtggg cacagttttg 660
 aaccttcttt aacttttcag ttttaagctgg gcccantgcc ttccaaantg ctggggattca 720
 ggcattgancc actgggttctg gccggnctac nt 752

<210> 730
 <211> 1493
 <212> DNA
 <213> Homo sapiens

495

<220>
<221> misc feature
<222> (968)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (971)
<223> n equals a,t,g, or c

<400> 730
ccctccctcc ctccctcact gcttccctcc ctctctctcc ctctcccttt cttttctaca 60
ttgaaatctg ttcttacata atagagaaca gggctattga ataaagacc aatcctacca 120
gatcttttagt tctaaagggc aacttgactg tgagtaggag ggccccaag aaaggragga 180
aagtccacac ccagctaacc acacaacagg gcttcattat ggaaatattt taacaaaagt 240
acatgttatt accaaccaaa gagatgcatg tgcaatagaa gccttcctta aaaacagggt 300
aaataacctc attttatgca gcagtttaat ctgagaacag agggaaagggt gtgcagtgggt 360
tccagagggg ccttatattc tatttttagt ctagatattt tttgtttata aattcccaag 420
gaattgttaa cactttgggtg acacctaattg gattcttttt gaaattccaa ggtgcttcag 480
ttctttgccc aagtgaactg tgccttttat tgcatttctg ttcgtctctt ggtggctctt 540
ctgacttttt ggagaatacc catcttggtg gaggcagact taagtgtgta tgctgtgcca 600
cacaatttac tgagacaatc atatcttctt aagcatttaa ggaaagtga aaaaaataga 660
attagctata aaatatgtat ggcacatctt gtttaatttt gcatgtaact tctcttttgt 720
acattgatga ggttttagtg acattgtcat ccaacacttt acctttattg ttcagggaat 780
gccttcgtga ttttttgtac tggttttatt attcagacta tggcctggat ttgagtatat 840
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ttgtttctca gattaagaca ctgttagaac ctaaagtagt agctgatggg tatctgtgaa 960
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agcattttta atggcagaag taaaaagtta taatatttat aattttgatg ggtttaagtt 1380
tatttttgta gggaagattt ttctcccta aaatagtttc tagaatggca aaattgtttc 1440
cattattaaa aattgaagtt attagttaaa aaaaaaaaaa aaaaaaaa aaa 1493

<210> 731
<211> 1057
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1056)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1057)
<223> n equals a,t,g, or c

496

<400> 731

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gaaattatta aaaatttcaa ggtggtgggc atagagcatt aaaccaaata tgaggccatt 60
cccaacttgt tttccgaggg gaaaatggta atacttgtgt ggcacccggg gttaaacagc 120
agaggctcca tgtggccaga ggcagagatt agtatcctgg cactccagtg acccactggg 180
tgactcactg atgccacagc acccgctagg aagctctgct gaaccttagt atttggctct 240
aaattttatg actccatgga gttcccgtag tccatggcta gttaggaaga aaggaggtgg 300
gataaggggc agggccaggt gaccctaag aaccaggaga tgggtaaaag ttttttttta 360
tattctgctt ttctgatctg tgagtacctg tttgtctcca ggccaaacct ttgggcttaa 420
atatcttttt cctagacagg tttttgctag tgttgaattt tcttcttctt ctggcctcct 480
tctgtgcccc tttccccaag cccaagactg cttaacttcc aaagcaaatt ctagatagac 540
actgtattta ttggtatggg agtgggctct atgggggtgg ctgcacccat ctgggactct 600
tttccttaaa tcctgcacca aatgagtcag gaggcagggg gcacagcatt agtttcaatg 660
tggttatgca tcataagctt aacatcagaa tgaaaatgaa actcgatttt gatgtttctt 720
taaaaccttt cccctgtcca atccactcgc cgccccacc ttgaatagct aaagtctctt 780
atgaaacaga gaagagttgt tgacgtctaa ctcttccat taaattaata agtactgacc 840
tcctaataat taagtgttta ctatctattg ctgtaaagtt ttgtatatat tgtaaacttt 900
tttcccaaaa tagtagatgt ctaaaatcat tgtacatctg attcttttat attccattgt 960
tcagcacaaa gtgtgggttt tatttagaat aaaaaaagaa atttgaaatg aaaaaaaaaa 1020
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaann 1057

```

<210> 732

<211> 479

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<400> 732

```

tnattatgag ctgtgtaacc ttggatacag tttctctatc tataaagttg tgggtgggaga 60
atggctgaga acagtgatct ctacagctctc cagctgtaaa gatgttaatt atgattttta 120
ctctcaagat caggccacat aaggacacag ggaattccag ggggtgggaca cagctggggg 180
agtccagacc agggcagggg aaggagactc acaagccaaa cagagctgct ttggggaaaag 240
ttcttatcag ctggtgctgc ttcttgagcc atatgccc atctcaagct gtaccctttt 300
cttggtatg taggatgagt tcctcctagg cccttggttag gagtggctat tggattctaa 360
gcggttgggg catgagggag gatattttta aggggaagtat agctgatttt aaaagaacct 420
atacattcaa gaacaaataa aaaacagcac ttttctttac caaaaaaaaa aaaaaaaaaa 479

```

<210> 733

<211> 1519

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

497

<220>
 <221> misc feature
 <222> (19)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (26)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (27)
 <223> n equals a,t,g, or c

<400> 733
 gntccccgaa tctccctgna cctcgnngaa cccaacccca acctgggaac ctccccaaaa 60
 gtgctgggga ttaaccaggc gtggagccca accacgcccc ggccctctttt ttttttaagc 120
 tgccaatctt tttggaagga atattcttac ctctactttg tcaccttcta ctggctcctt 180
 aactaaaatc tgccatttgg ctctctgggt aacagtcctt tcctgtaaag tctaaaatct 240
 taattctaaa tccacagttt aattcacaag ctagtacttg actttttttc tgtatttgac 300
 atttttgaca acccctactt taaagattta ttcccttgac ttcttacatt ttgctcactc 360
 ctgaaccacc cccacacttt tggcctcttc atttattcct taaatggtat tcctcagacc 420
 tccatttttt ttttctctct taatcacaac accacttctc acgcttgggt aattttaatt 480
 cagcagttcc taaatcctta tctttagcca gactcctcaa tccatctgcc tgttgcaact 540
 ttcttgggtg tcccagagac acctgtgtgt gtcttaaaac attcattctc tgcaaaacct 600
 actctaagtc ctgtgtccct tactttgggt aatttttagaa ccattatatt ctaagttttc 660
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 atctccacct ctctgataca tcaactcttc atcttcattg ctattattaa taaataccta 780
 cagtactaac ctgctccta tacctagctg gtctcctctc tgttgctcaa tgttaccaca 840
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 aactttcagg agaaagccaa actcctctgt ttggtgtaca aggtcttctg atgtgtttcc 960
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 ctcccgccct ggtaaagtgt gtactctttg catcaagtgt gctagtcac cttccccact 1080
 tggaaaattc ctatgcatct tgcaggcctg acataagcat ttctctctgt aaacctcctt 1140
 tgctccactc aaggagagtc atctaacttc cactttctgt tcaccactgt aattacaacc 1200
 tacctctatt gtatgtcact taaatcgtae tgtattgttt tatttttcaa aagtctttac 1260
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 catagttttt ggcatatgaa tgtttaataa atgtttgttg aataaattga ttttaaagtg 1380
 acatctttat tatattagag gtccctaccta tattccaaat actttcactc ccttcacttt 1440
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 attgtattca aaaaaaaaaa 1519

<210> 734
 <211> 1449
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (200)

498

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1431)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1443)

<223> n equals a,t,g, or c

<400> 734

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atggattaat ttatttactt ttttaattcaa attctccttt tcttttagccc attattccta 120
tgtttacaca aaatattcga gaaggattta gatcacttgg aggaacaagg ttatttaggt 180
ggctttatga aaaattccgn tatccatttg ctccaatgta tggagggttt ccagtgaagt 240
tacggaccta tttaggcgac cccattccgt atgaccaca gataacagcg gaagaattag 300
ctgaaaagac gargaatgct gttcaagctt tgattgataa gcaccaaaga ataccaggaa 360
acattatgag tgctttgtta gaacgttttc attgataaca aaggggtcaac tagaagatga 420
tttagtacat ttatattaaa tgtttgtatc taagggtactg tcttctgaat tttgtagggtc 480
ctataattag tattttttta aaaaatcatg ttaataagca tctttcacag aattcggttc 540
tttaaaatag tcaattttgt ttttgcaatt gtgtcaaata ctaacaaatt acacacctag 600
taattcagaa aaagatgtct tatttgtaaa ttcctaaca tttatgctaa acatatagat 660
tcttaagttt attaataaca gcagtttagg ttaacaaac attcctggat aatgcgttaa 720
atctctgtat ctgtcgccct gagctgattt tgaaagatgg tataagctag gggtagtat 780
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gcaagtcacg taatgttttt gtgcctcaac aattcacttt ttaaaaacat gatcgtatga 900
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ttgtgtgttt aaattatgtc atgtccagtt gccaaagcaca atgaaaaaga tgtattat 1080
tttaaaattga ataaaaaatt aggaaaaata aaatttctaa ttattat 1140
ttttkaacaa gagtctatag gcaaacaata taggggtgtgc tgtgcattgt cagccctata 1200
ctgtgggtctt aataatgcca gcttaaaaaat cactgttgtg ctctgcattt cgtgtgttag 1260
aagctgattc taggtgagg aaagcaagag ttctctactt ttgctcaata ttgaggctta 1320
cccagtttga ctctacagct agtgaagygg tttattgctt caataaaaaat atacttgaat 1380
gatgaattta tttatgtttt gttttgtttt tatttagaga tgggggtttt ncaagttggc 1440
cangcctgg 1449

```

<210> 735

<211> 930

<212> DNA

<213> Homo sapiens

<400> 735

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gcggcacgag ctctctctct ctctctctct ccagaagtgg acttccctgt cccccaggc 60
agaggcagga gtgtggagtc tgtgcagagc cagccccagg agcccgtag tgtgccccag 120
acactgacta gcacgctgga gcacattgtg ggccagctgg atgtcctcac tcagacagtc 180
tccattctgg agcagcgggt gacactgaca gaagacaagc tgaagcagtg tctggagaac 240
cagcagctaa tcatgcagag agcaacacca tgatcagggg agcaggaatc aggagctcgg 300
tggatttgca ggtggcaggc cagggtattt tacrrtggga cttggggtaaa taaaggggac 360

```

499

```

tgaactctgt ggggaatcaca tccatactgg agccctggat ttttgagtt ctgccctcca 420
ccttgctatc tgcaccagga ggctctccac ctggcagcca gaggtcccca gtgggcccgg 480
ctcacacaca aatgatgctt cagaccgaa tgagaggacc acattttgct taatgtaaag 540
gagccacttg aaaatgtctg ctcttcggg gtcctgagat tgtggctccc cctctggagg 600
aggtggctcc acgatgcctt gattttcact catcatttgg acatgtgact ggcttttctt 660
acctctgcca tgggtgtagaa attgattgca cattgattgg atgagccggg ggtttttctt 720
aaatctgact aaaggcccaa agtgggcccc tctgagtcag gtttggtgag aacaagccct 780
ctcaagtggg tgggtggcttt tcagtggccc tgattttctgt tccacacgtg ttcactggag 840
ccaggtgact tcctccttgc gtgagtgagg gcacaggaat ctcaaaatta aacctgactt 900
cattgcaaaa aaaaaaaaaa aaaaaaatct

```

<210> 736

<211> 914

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (894)

<223> n equals a,t,g, or c

<400> 736

```

ggcagagct gagggggcgc atgctggagg ctgccgactt cgcggctcgc aagcaccggc 60
agcagcggcg gaaggacccc gaggggaccc cctacatcaa ccaccccatc ggtgtggcac 120
ggatcctgac ccacgaggcg ggaatcactg acattgtggt gttacaggcg gccctgctcc 180
atgacacggg ggaggacaca gacaccaccc tggatgaggg ggagctacac tttggggcac 240
aagtgcggcg cctggtggag gaggtaacag atgacaagac tctgcccagg ctggagagaa 300
agaggctgca ggtggagcaa gcgccccaca gtagccccgg ggccaaactg gtgaagctgg 360
cagacaagct gtacaatctg agggacctga atcgtgcac ccagaggga tggtcagaac 420
atcgagtcca ggaatacttc gagtgggcag cgcagggtgt gaaggggctt cagggaacaa 480
accggcaact ggaagaggct ctaaagcatc tgttcaagca gcgggggctg acaatctgat 540
cagtgttga agctatccag aggcacaact ccagcctcgt tcaggccgga caggattcat 600
acgccatctt ttctgtgtct cctgagctcc ctccatcctt ccagatatt agaggccaaa 660
aaaagacttg cattttttct cagtctgaag gtctcctgct aactaagctg agccccgcgt 720
ggtgggaatc agatgtaccc atccatttct gatgcactca ccgctctcc ccaagtcttg 780
ggtctgtttg ctattttgca tgggtgggac tctggccctt cagggacttg agattattta 840
agtactagtt cctaacacgt tctggaaaat aaaaataact ctgggttaag gttnaaaaaa 900
aaaaaaaaaa aaac

```

<210> 737

<211> 1227

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

<223> n equals a,t,g, or c

<400> 737

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gcaggaataa ttttaaacta tttttgctgt aatgtgnagc tttaatgtct cttttcagka 60

```

500

```

yggacccata aaagtattcc tatatcttgt gaataaagat cattcttgtg gactagtacg 120
tggatgcatt cataggcttt gggaagcagt ggtgtgcgta tgtgtgtcta tatcaatatt 180
ttatgtttat aactctgcgt attaagttta tatagaaaaa aataatgtct ttcttttagtg 240
tttgggggac tcaatggtaa tatgaccatt gcagtgtaat ctgactgctc actctagaga 300
acacttctgt tatacacaat gcacatacaa acatacacc ctaaagcgta gctaactgct 360
cccactagat aattgctgct aaaaacaaaa caaacacaaa caatacaaaa caaaaaaac 420
cctaagtaat ggaggaagaa atagcattct tttaaaagg gcttttctga agagtaaaat 480
gtaaatacag gacatgtggg gaggggtggg ccgcctgcaa aatgtcctga agatggacaa 540
atagcctttt aaattctact ttttaaccat ctttaccgtg tgtgcctatt tgtattgcag 600
atgtgaacta ctatttttgg aggttgatat cagtatgttt tgaaactgaa ttattacata 660
aaatcagagt aacctcttcc tccatcctcc tttccacac tattcttggc aaatatttct 720
actgaaaccc agtttcagca aggcaaaatg atgggactct caaacctccc tctcatctt 780
cccttcccc ctgtcttatg cctggcctgg ctttttttgt tgttgttggc ttttcataag 840
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ttttttttaa atcttcggct acacagtaac atcaattaaa acagaagagt gagtctaagt 960
ctgtaatatg ctgtaggacc agataagatt ttgaatgaga cttaaacttga ctgccatatt 1020
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gtagtcatgt tataattaga aacaccaaat gctgaatcct atcactgtgt tcttgggggc 1140
caggccttgg atttggttgt catttaaaact ccttgaagat tataatgtaat tataatgagc 1200
agaaggcaaa taaagttttt gaacaaa 1227

```

<210> 738

<211> 775

<212> DNA

<213> Homo sapiens

<400> 738

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ggatcttcat gttttcacat cttgagatgc aatttgtagt cacaggctgt cattccaaga 60
cacacaaatg tcattaaggc aaccgcttaa aggagtgtga tattttattg aggttagacag 120
gacaatagat aaatatitaa tctgttacat gtttgcctct tgtggagcca gggttggggc 180
tgcacaactc tctggctgct atgtgtcttc ctggaaaccc tgtcaaaggc cttaccgcct 240
gcctggagaa acacagtgcc tgccttggc aaatatatgt tgggtgtatct gaaaaacagc 300
tcctggaagc tttttctcat tcaggcttta ggggttacc cacttttctt tatgtgtgta 360
atattggaga atgtacactc tcaactgaact ggggatgttt gacttaaaat gatggacaat 420
aagatagtga gcagtaagtg tgccttaggc taggctacga gagggcatga gctcctcatc 480
tcttctctgt tctgagctct ctgatccact gcacttgggg caggggggtgc attctctgtg 540
cctctcctga gtctactttc tgcacatttg gttctcccag ctcacttcca taatgtcctc 600
ctaggctgca ttggaattgt gtgttgtcta gacccatggc caagactgtc attgcctgtg 660
agggagacca agctcaccac caagggtttt tgccagattg ctttcattta cagaatttgc 720
ccattcatgt gtcttttgtgt ttatggatta aatggctttc tgaccagcaa aaaaa 775

```

<210> 739

<211> 1437

<212> DNA

<213> Homo sapiens

<400> 739

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cgggtgtaccg tgtctttaaag cccctgaaag awaacgctaa taamgcaaaa agcttactgc 60
tcaactacat acctcagata ggggtccacag aatggtcaga aaccctccmt aacctgaaga 120
atatggccca gttttctgtt ttattaccaa gacattaaag tagcatggct gccaggaga 180
aaagaggaca ttctaattcc agtcattttg ggaattcctg cttaacttga aaaaaatayg 240

```

501

```

ggawagacat gcagctttca kgcccttgcc tatcaaagag tatgttgtaa gaaagacaag 300
acattgtgtg tattagagac tcctgaatga tttagacaac ttcaaaatac agaagaaaag 360
caaatgacta gtaaacaatgt gggaaaaaat attacatttt aaggggggaaa aaaaacccca 420
ccattctctt ctccccctat taaatttgca acaataaagg gtggagggtg atctctactt 480
tcctatactg ccaaagaatg tgaggaagaa atgggactct ttggttattt attgatgcga 540
ctgtaaattg gtacagtatt tctggagggc aatttggtta aatgcatcaa aagacttaaa 600
aatacggacg tactttgtgc tgggaactct acatctagca atttctcttt aaaaccatat 660
cagagatgca tacaaagaat tataataaaa gaaggggtgt taataatgat agttataata 720
ataaataatt gaaacaatct gaatcccttg caattggagg taaattatgt cttagttata 780
attagattgt gaatcagcca actgaaaatc ctttttgcac atttcaatgt cctaaaaaga 840
cacggttgct ctatatatga rgtgaaaaaa ggatatggta gcattttata gtactagtgt 900
tgctttaaaa tgctatgtaa atatacaaaa aaactagaaa gaaatatata taaccytgtt 960
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tcmcatTTTT ctacagtga tttaatcaaa tagtaaagtt gttgtaaaaa taaaagtggg 1080
tttagaaaga tccagttctt gaaaacactg tttctggtta tgaagcagaa tttaggttgg 1140
taatattaag gtgaatgtca ttttaagggag ttacatcttt attctgctaa agaagaggat 1200
cattgatatt tgtacagtca gaacagtact tgggttttgc acagctttct gagaaaagct 1260
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gtatctgata ttttaaaaag taatgtttga ttctcctttt tatgagttaa attattttat 1380
acgagtttgt aatttttgc ttttaataaaa gtgsaagctt gcttttttaa aaaaaaa 1437

```

<210> 740

<211> 1389

<212> DNA

<213> Homo sapiens

<400> 740

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gggacggcgg gcacagcgca gcaactccccg ctcggttgcc cgggtatccc agcgcgggacc 60
cacgcgatac gctgacgccc cgacgcccgat ccggccgagc caagactcaa cgatgactct 120
gaataatgtc accatgcgcc agggcactgt gggcatgcag ccacagcagc agcgctggag 180
catcccagct gatggcaggc atctgatggg ccagaaagag ccccaccagt acagccaccg 240
caaccgccat tctgtacccc ctgaggacca ctgccgccga agctggteet ctgactccac 300
agactcagtc atctcctctg agtcaggga cactactac cgagtgggtg tcatagggga 360
gcaggggggt ggcaagtcca ctctggccaa catctttgca ggtgtgcatg acagcatgga 420
cagcgactgc raggtgctgg gagaagatac atatgaacga accctgatgg ttgatgggga 480
aagtgcacag attatactcc tggatatgtg ggaaaataag ggggaaaatg aatggctcca 540
tgaccactgc atgcaggteg gggacgcata cctgattgtc tactcaatca cagaccgagc 600
gagcttcgag aaggcatctg agctgcgaat ccagctccgc agggcccggc agacagagga 660
cattcccata attttggttg gcaacaaaag tgacttagtg cggtgccgag aagtgtctgt 720
atcagaaggg agagcctgtg cagtgggtgt tgactgcaag ttcacgcaga cctctgcagc 780
tgtccagcac aacgtgaagg agctgtttga gggcattgtg cgacagggtg gccttcggcg 840
ggacagcaag gagaagaatg aacggcggct ggcctaccag aaaaggaagg agagcatgcc 900
caggaaaagg aggcgcttct ggggcaagat cgtggccaaa aacaacaaga atatggcctt 960
caagctcaag tccaaatcct gccatgacct ctctgtactc taggaacca gggtcacca 1020
gatgtccctt tgatggccgt tgttgaaggc cattgggacc aataatctat attagattga 1080
atacttaagt tagatgtgg ttccccatt gtagcaggga gctagcgtat tagccttgtg 1140
ggcaacatga tgcattggga atgaaagatt tttgtaaaaa gtcagtattt atttccagga 1200
aaagcctgac cttgctattt gaacacccaa gactctttag aggatgtgtt tgggtgttcac 1260
atgkgttttyt tytatttttg atagtagrga agtaaaagctt acaaagaatg cctagaacaa 1320
gaacttttca tcattaaaaa tttttcccag tgtttytgaaa aaaaaaaaaa aaaaaaaaaa 1380
aaaaaaaaa 1389

```

502

<210> 741
 <211> 852
 <212> DNA
 <213> Homo sapiens

<400> 741
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 aaaagcagtt tctctccaac tccctctggg aagggtgacct ggccagagcc aagaaacact 120
 ttcagaaaaa caaatgtgaa ggggagagac aggggccgcc cttggctcct gtccctgctg 180
 ctctcttagg cctcactcaa caaccaagcg cctggaggac gggacagatg gacagacagc 240
 caccctgaga acccctctgg gaaaatctat tcctgccacc actgggcaaa cagaagaatt 300
 tttctgtctt tggagagtat tttagaaact ccaatgaaag aactgtttc tcctgttggc 360
 tcacagggct gaaaggggct tttgtcctcc tgggtcaggg agaacgcggg gaccccgaa 420
 aggtcagcct tcctgaggat gggcaacccc caggctctgca gctccaggta catatcacgc 480
 gcacagcctg gcagcctggc cctcctggtg cccactcccg ccagcccctg cctcgaggac 540
 tgatactgca gtgactgccg tcagctccga ctgccgctga gaagggttga tcctgcactc 600
 gggtttgttt acagcaattc ctggactcgg gggatattttg gtcacagggg ggttttgggt 660
 taggggggtt gtttgttggg ttgttttttg ttttttggtt ttttttaatg acaatgaagt 720
 gacactttga catttcctac cttttgagga cttgatcctt ctccaggaag aagggtgcttt 780
 ctgcttactg acttaggcaa tacaccaagg gcgagatttt aaaaaaaaaa aaaaaaaaaa 840
 aaagaaaaaa aa 852

<210> 742
 <211> 446
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (321)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (372)
 <223> n equals a,t,g, or c

<400> 742
 ggcacgagaa gccctggaca catggatttg agtcctaact ctgtctctta gatttttgta 60
 tgcagtttta ggtcttatgg ccagagagat ttgaagatat ttaatatctc taagctgcaa 120
 tctttatctg caaactgggg ttagtaatcc aatcaacctt attgcggata ttgtaagaaa 180
 aaatgagatg acaagtgtaa aaactcagaa ctatacttac aaggtaagca gacaaaatat 240
 gctattgttg tgattgtttt ctctctgaat aaataaactc tgctgaagaa tttattagat 300
 atgtttctcg aatcgagaat ncagttccag ctctcatttc tggcactgac atattggcca 360
 aatatgattc tnatacaata atcagctgct ttgctgtgag ccttggagtg gtcagctggt 420
 gatggmctgc ttgtattcct attcag 446

<210> 743
 <211> 892
 <212> DNA

503

<213> Homo sapiens

<400> 743

```
aattcctaaa attgcaaata atactcaact atgaagaatt ttattagtta cagtgtctatt 60
aaagaatatg tgctcctttt tattatatta tcagatactt atgtttaatt gtacattttt 120
taaatcctga atatattgtg ttttgtaac aaatgtaatc agtggaaccc ttcttacgtt 180
ttgattatta gcagttaaat acattttgta tacatgaagc ttagattaat tcccatcatc 240
atcatctcct gtttttatat gtgtccctat gtgtttcatg cattcctctt tgatcagatt 300
ggaatttgag ttaaaattta gctttgtaca ttacgtgtga gagttacaga ctagcaagtc 360
taattacttt gccttacctt gagtgtatgc cacaggggtc gataacacat taaacattta 420
gttacactgg attactcttc caaagctgac ctcttgctaa tgttcagagg taactgcaat 480
ccggaaagaa ataatatcac tgcagaaaga atgtgactct aaaaataaac caggacctcc 540
ctgtgatattg ccttgctgc agatgaccag ttgactcttg tgctgtcagc cctgggggtg 600
ctaaggaagc tgcttcaggg agttgggggt tagttgcccg ctctcaacag gaatgcctcc 660
tctactttgt cagagatgct gaacaaatat caaactctgt ggcagtcag ctggcctcct 720
aagaataacc tgtgagtcag agttgatgca cattattttt gtttttattt ttttttttta 780
aggaactgct ccaaggggtc attatagaac aggagtgtgt acggaggact taggtcccca 840
catagagtgg ccgttctgta atgaaccctt ggagcagttc cttaaaaaaa aa 892
```

<210> 744

<211> 700

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (175)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (178)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (249)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (683)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (692)

<223> n equals a,t,g, or c

<220>

<221> misc feature

504

<222> (694)

<223> n equals a,t,g, or c

<400> 744

```

tgcagggtacc ggtccggaat tcccgggtcg acccagcgcgt ccgatttcaa aagctaatac 60
tataatacat tttcataaaa atgatgtttt aagggtaaaa gaaaagaagt aagctatttt 120
cctagataaaa gctgcccagt ctaacaagac ataaaacatg tttttcggcc taggnttntt 180
atcaatttag agtggtaatg ctgggtcaga tgttttgatt aattaatctt tgattaataa 240
gtataagana gctaattatt agaagagaag gttgttttat aaacatcatc tttcaaaatt 300
cgagatttat ggggaataaa ttaggagaag gtggttaaac ctcttcaaca ataaattgct 360
ctttggggac attttatgca cagaactgtg caccctcttc agaacagcag gtctttaatg 420
gccccatgtga tgagaagggc cccatcaagg cagcaggaat gggccactct cccacacccc 480
atggggccagg ccaactgccac tcctgctgcc ctgcatcccc aggtttatgg ctgcatggta 540
gaagtcactt ctgtaagaaa ttcacctttc taaaataaag tatgctcttt tttctgagac 600
atctatagaa taacttgtgg cagagtgttt taaaaactga tttggatttt ttttatcctt 660
taacccgtgt gaaaggatgg aanggathtt anngngaaga 700

```

<210> 745

<211> 442

<212> DNA

<213> Homo sapiens

<400> 745

```

agcgagaggg agaccaggg ggctgaaact tgaactctgg ttctttttaa attaatTTTg 60
gttgggtgtt ggggaggcgc gagtgcgtgt gagaagaacc gaccacccc gcgcaagggg 120
aagcctcctg tctcccttt ccccgctcc gagragggcg aaaccacag tgttacctga 180
cttatgaaac ttgaaaccgc ctctggagcc gccattctgc agagtatttg gaaaaagaaa 240
aaagggTTta tgcttacgtc tctggggtcg gggggattat gtcacgagcg ttcaaaactgc 300
tggaatatct aaaactgtac tgtctttatt tttgtatatt gtatttatat ataaaaagaa 360
acgtctacgt atgcatgcta aattattatt tagcgtctcc catcgccac gatggaatgt 420
aaaataaatt ggttttgtac tg 442

```

<210> 746

<211> 1329

<212> DNA

<213> Homo sapiens

<400> 746

```

tttactccag gtagatttcc acaatatgca aagtgggtgg ggggtcaaga cagatgacac 60
cagcacttta aactctttgt gtgggtatgc gtgggtgtat gtttgggaag aaaaacaaag 120
gtgcagacta tcttcctttt tttcttcttc agcctccatc cctggcctcc tccccacaca 180
cacactggac ttggtacaaa atgtcgggtgt ggtcctagat gaagcatttg ggtgggggag 240
ggagaggggag ctttgtgtta agtgccctact ggaaatgcac tgtgggggtt tttcctgtat 300
gggaaaccat ttatgccaag cttttcccca tttcccatat ttatctcatc tggtttagctg 360
cctctgcttc cagctttgtg taattctctt tgccagctgc acaaagctga ttttttccaa 420
agtctaaaga ctgagctcac ctggctagat tgttgtgtgt tttgttgaat tttttcataa 480
tgtaatgccg tatttattgt ttttaaaatg aaaggaatac taataagtct taaaagtTcc 540
ttcatgcata agattttttt ccagttactg ggcttaactg gtgtacatta attagatgtc 600
catactgtat tttgttttga ttaagtaatt ttctttttga cttagtatcc ggcacacaaa 660
gtgggttagt actacagtat ttgcgttact ttaagtacta agtatgcagg tttcctggta 720
ccattgagtt gctgctatta aagctcacac acgaaatggc taaaagttac aagtgtgcaa 780

```

505

```

attatgactg cgtgagcctt agaaaataaa atgtataaag ggcaacacat gasctgtcaa 840
acagtgttag gagtgtgttt atatgtacag agttgtgcat agcaatcgtt ttattttaagt 900
tgatatgtag tctactcaca tttycattat ttagcaattt tgtacaaaaa tagcmattaa 960
tttgtaaaca ctgccagaat actttctagc tgctttgtaa ttttttaaga gtgttatttt 1020
gtttttgttt ttctgttctt tgttgtggct cttgttttca tttttgttgt acgtgtagat 1080
ctgtaaataa aattgcagta tttaaagctt aagctttcag gaaaaagaaa ataagaattc 1140
agtgtgtgca tgacaactcg tgtgtatgag aaggagggat atgaaggaag atggcttgca 1200
gagtaagtcg ggtggcaatt gtcaggggtg gatcttacca cttcaaattg gtgtaatttg 1260
aataaatttt gtatggtaaa ggatcaataa aatgattttt ttttaagaaa aaaaaaaaaa 1320
aaaaaaaaag                                     1329

```

<210> 747

<211> 239

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (204)

<223> n equals a,t,g, or c

<400> 747

```

gagaacttct gaagtgggtg atcaagtaca attctaataa gggaccaggg taagtgactt 60
ggcaacaatt tccttgggaa gctgccaaaa tcttatcttc agtctcaaaa ctctatctg 120
cagtcatagc tagtctagaa aggtaagtct tgatttctta gctaaatgag taaagtttgt 180
attctacaaa gaaaatagaa tacnaataaa aataataatg gagaagcaaa cttaaattc 239

```

<210> 748

<211> 1589

<212> DNA

<213> Homo sapiens

<400> 748

```

gcttttagaag aacattttcta gggaataata caagaagatt taggaatcat tgaagttata 60
aatcttttga atgagcaaac tcagaatggg gctacttgaa gactctggat ctgctgactt 120
cagaagacat tttgtcaacy tgagtccctt caccattact gtggtcttac ttctcagtgc 180
ctgttttgtc accagttctc ttggagggaac agacaaggag ctgaggctag tggatggtga 240
aaacaagtgt agcgggagag tggaaagtga agtccaggag gagtggggaa cgggtgtgta 300
taatggctgg agcatggaag cgggtctctgt gatttgtaac cagctgggat gtccaactgc 360
tatcaaagcc cctggatggg ctaattccag tgcaggttct ggacgcattt ggatggatca 420
tgtttcttgt cgtgggaatg agtcagctct ttgggattgc aaacatgatg gatggggaaa 480
gcatagtaac tgtacccact gtgaaccacg aaatgccaca ccatggaagc cacacactct 540
gctgtctcct tctgtcctca ttctgtcct tctcacagtc agtccctctt ggctcttctt 600
agagtccctt tcattccctc atttccactt cctgccgctg tactgtcacc tgtggcctgg 660
at ttgcactc ttgggtccaa accctcaact ycaacacctc tgtctttctg ccccatccac 720
tagacaaaag ctgactctgg aaaacattag gcaactcagaa tcaagggttc tggggtcaga 780
tggataattg ccatcatcct caccaagttg ccaactggact ttcttgcccc taaatccact 840
gggcatttca ttgctacctt tcttgacttc ttgattgttt ttgtgatact gacacatccc 900
ccctttcaga acaccctctg cccttggatt ctgtgcacag gaagctagtt gctccccctga 960
atacactctt tcttccttgt aatacagcct ctgatttttg gcccaagaat aaagactaca 1020
gttctcagac tccttcgcaa ataaattttg tgactaaact ctagtcaaca gtaaggctcat 1080

```

506

```

gtagcagctc ytggaatct cctttaaaaa gagagcttgt ttataacctat tgksatctct 1140
gtttcttctgt gcccctkctt ccatttttgct gcctggaaag cagatgtgat ggctgkaatt 1200
ccagtcacca ttttggacca tgaggacaac accctagaga tgtggagtgg ctaaaagaag 1260
cctgtgttcc tgagaactta gaggaccagg acctctattc caggcttgga cacctacatt 1320
tagactatta tatgaggaag caatcaactt ctcacttggt tcaaccactt tcacttgcag 1380
tcaaacctga attgtaagtg aaattgcttt cctgatagca aacctgttgg attttctcca 1440
gaatccctgg gccactttta gcagtcagat tcgtctaata ctcctttaaa gatggtggca 1500
gtgaaactgg tacatgggac ctgactgggc tttgtttgca actttctgat aatttataat 1560
tatttcaaaa taaaaaaatt ttaaaaaata 1589

```

```

<210> 749
<211> 633
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (627)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (632)
<223> n equals a,t,g, or c

```

```

<400> 749
attcatacta gcatgctcat gaataaggca atgtgttaag cactggcata caaatgcagc 60
taaaggtgct gaaggaaggc agtgggggtgg tgcaggcaca cagcaggagag ctcttccccg 120
tgacacgtta gtcattctct ccacagagca scaccaasw gccttccttc agcaccttta 180
gctgcatttg tatgccagtg cttaacacat tgccttattc atactagcat gctcatgacc 240
aacacatata cgtcatagaa gaaaatagtg gtgcttcttt ctgatctcta gtggagatct 300
ctttgactgc tgtagtacta aagtgtactt aatgttacta agtttaatgc ctggccattt 360
tccatttata tatatttttt aagaggctag agtgctttta gcctttttta aaaactccat 420
ttatattaca tttgtaacca tgatacttta atcagaagct tagccttgaa attgtgaact 480
cttggaatg ttattagtga agttcgcaac taaactaaac ctgtaaaatt atgatgattg 540
tattcaaaaag attaatgaaa aataaacatt tctgtccccc tgaaaaaaaa aaaaaaaaaa 600
aaaaaaaaaa aaaaaaaaaa aaaaaanaaa ana 633

```

```

<210> 750
<211> 967
<212> DNA
<213> Homo sapiens

```

```

<400> 750
gggagggtct gaggaccaat tggaagaccc agcactaagt ggtaaggctt gggagtgtga 60
aatggggagg aggggctggg atcttgggtg gtggggccag gccctgagtc cctctctgct 120
tgcctttcag agcctgggga ggaacctcag crcccttccc cctctgagcc tggcacatag 180
gcacccagcc tgcattctcc aggaggaagt ggaggggaca tcgctgttcc ccagaaaccc 240
actctatcct caccctgttt tgtgctcttc ccctcgccctg ctagggtgct ggcttctgac 300
ttctagaaga ctaaggctgg tctgtgtttg cttgtttgcc cacctttggc tgatacccgag 360
agaacctggg cacttgctgc ctgatgccc cccctgccag tcattcctcc attcaccag 420

```

507

```

cgggaggttg gatgtgagac agcccacatt ggaaaatcca gaaaaccggg aacagggatt 480
tgcccttcac aattctactc cccagatcct ctcccttgga cacaggagac ccacagggca 540
ggaccctaag atctggggaa aggaggtcct gagaaccttg aggtaccctt agatcccttt 600
ctaccacttt tcctatggag gattccaagt caccacttct ctcaccggct tctaccaggg 660
tccaggacta aggcgttttt ctccatagcc tcaacatttt gggaatcttc ccttaatcac 720
ccttgctcct cctgggtgcc tggagatgg actggcagag acctctttgt tgcgttttgt 780
gctttgatgc caggaatgcc gcctagttaa tgtccccggg ggggcacaca gcggggggcg 840
ccaggttttc cttgtccccc agctgctctg cccctttccc cttcttccct gactccaggc 900
ctgaaccctt cccgtgctgt aataaatctt tgtaaataaa aaaaaaaaaa aaaaaaaaaa 960
aaaaaaaaa 967

```

<210> 751

<211> 695

<212> DNA

<213> Homo sapiens

<400> 751

```

attcggcaga gstgagtgga taggaggtgc agcagtcttt gggtagcagc ctactcaaga 60
aaagaatgat aattacatac tcacaatctt tagccatcaa gcacttattt cctcaactcc 120
ccctccccct ggctatttgc caaaccttaa atcctgtatc ctatttactt catgcctgtt 180
ggttactaag tagttccatt tagagtacac attcattgtt gccttgaact tgctctgctg 240
ttatggcacc tgaaaactag atgttcttgg atgggggtct tccttcatca aagcttcttc 300
ccatttgtag ttcagttcta ggacaaggca agargaaagc aagaagctgt aaatcccatt 360
cctctgggtc tcaatttcac cctcagttca aggagctgag taggcagagg caaaggctat 420
actcaacaca cgtgcaattg aaagcaggcg agggcaaaacc agggcagagg aaaggaaagg 480
gggtgtgtga ggtatggatt tatgggtagg tgggtcggtg ggtagttga agaggaggtt 540
ctaagcagta taacctaaagc ctcttttctc tttcttctgc ttcaaacacc ttaagaactg 600
ctcagggtag actggagaca aaagcaacag ctcagaagtg ctaaactctt aagagcagcc 660
aaagcatggg caacaaagtg agaccccatc tctac 695

```

<210> 752

<211> 390

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (370)

<223> n equals a,t,g, or c

<400> 752

```

aagcggccgt gaaagtgttg tgctatcgac aacggtatgc aggccgcctt ttttacgcgc 60
ccagctgacg ggtagccagg tgcaaccatt aagcatcgca atctgttgct gtgccagttc 120
agcagaactg swtgtcagaa tgggcacttc gtcagcaccg atcaaacctg cctcatgctg 180
ttgaaaatct ggccccact caagtgcgag ataattaaga tctcccttta gttttgaagg 240
ggcactggta taaagcgcta aagtgaata tcccagcaac tgactactwa aattcgtcca 300
ttttgggcgc ttcagtggta aataaggaag atcaagctgg cgttcatgca gctgttttac 360
cagagactgn ccgtttgggg caatttcggg 390

```

<210> 753

<211> 508

508

<212> DNA
 <213> Homo sapiens

<400> 753

```
gcctgactgg ttcatectcc ccggaacttc ctagacgccg tacgtgccag atggtgttac 60
ctggagctta aaaagctgca cgcaagtgtt aaacttctga caatggccaa gaacaaatta 120
agagggccga agtccaggaa tgtatttcac atagccagcc aaaaaaactt taaggctaaa 180
aacaagcaaa aaccagttac cactaatctt aagaagataa acattatgaa tgaggaaaaa 240
gttaacagag taaataaagc ttttgtaa atgtacaaaagg aacttgcaca ttctgcaaaa 300
agcatttcac ttgaacctct gcagaaagaa ctgattcctc agcagcgtca tgaaagcaaa 360
ccagttaatg ttgatgaagc tacaagatta atggctctgt tgtaatatatac tgggtgatgca 420
tctaattctc cacaaagacc aataaattga atgttttata caattttaaa atcttgttta 480
tgtacgggct tgggcacttt ttaaaacc                                     508
```

<210> 754
 <211> 1162
 <212> DNA
 <213> Homo sapiens

<400> 754

```
tagttctaga tcgcgagcgg ccgccctttt tttttttttt tttttttttt ttttttaaag 60
agagtgtgta tgtacttttt ctctctataa gggccagggt gttggtcaaa ttcaccatcg 120
attaatttat atcttctgtt gtgatttttt tcaactatat aacaagtgcc aactaattgt 180
ccatgggaca atctactttt ccactcaatt tatcgttttg agtagggaaa ggttcattta 240
ttttcattac ctggcattaa gttaaagaat tcattatttt gcatacattt gagtcatctt 300
gtgacctata aagtgttttt gtaactatct aattctaattg gttgcaaagc aaagcacatg 360
actgtaaaac caagcaagggt gtttttagtaa ctttttccct gaatacttgg tagtttccat 420
tgatactatt ccaaaacaaa ttctgctgtt ttaggttgta tatttacttt gcttttgttc 480
taagaaaaag ccaaggacta aatcaacttg tttttgtgtt tcagtaatca gtttaaaatc 540
taagattttt ttttaaatga gactatttaa tgaagtgcc tgaattgta gcttgctagt 600
gtttaatgtt taatagactg gttctgtagg tgttttaacc atttaacact ctctgccatc 660
cctggagaaa gtggttctac tcttactgaa cacattctct ctgacaaaat caccagctgc 720
tttatttttc tatttattac agttaaacag ttgatgagggt ctgaatcttg accaaaactg 780
ctcagctgag atgtttttca caatagacac tgtacaaagt gtgcgtgcaa aaggacacgg 840
ttggtagtat tttttcatta atgtgaacat tgactaaaaa aaagcagtc tgccttttaa 900
atcttgtggc agctcagaag ggaggtgctt aagaacctta actactatgt cagataacaa 960
aatatttttt tccatttttg agattgggtta ctgctcacac atgatgtata gggctaaata 1020
tatgcttggt tccttgccac tgtgtacttc cctctctctc ctccctttcc ttcccctgta 1080
ggcaataaat ggccattttg caactgcaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1140
aaaaaaaaaa aaaaaaaaaa aa                                     1162
```

<210> 755
 <211> 1087
 <212> DNA
 <213> Homo sapiens

<400> 755

```
gccccgcgct ccggcgtctt gwggctgcgg cctgcccttc agcctcctcc gcgcggttac 60
ccctgtaccc gccgccatcc gtcctggcgc tccggatgag tcaatgaggg gcagggccccg 120
aggagtggtc ttcccaagaa cccctgggtg cctcccaagg ccggtgctgt gtacctctc 180
cccgcacaaa ggggaaactg agggccccgag gggagtggga agagccggct ggacgtcagg 240
```

509

```

cccagccgct ggtgcagtgg tccgtcccct ctgccggggt gggcccccctcg ggtttcgcgt 300
gtcctcggga aagagactgg cgggcctcgt gggctgtgcg gctatcctgg agacagatga 360
cagctctccc twggatggct ttgctgggtc cgcaccagcc agcgcccca ttttccctgc 420
agcaccctga tctgcactcc ctgaggggct cccactgtcc gcggtgtgag gatgtccctg 480
gatagtccac tgtgtgcaga ggcatgggag ttgtcatggt ggaacatgc tagacctcag 540
tacccttgag ggatgctgcc ttgggtctgg aaactgttag aggaacccc aagaggtgca 600
gscactgagc ctctcaggac aatgacctgg ggtcccagct cccctggagg ggcctcctca 660
tgattgtttg ggggttgatc acagaccaag agtgacgagt gatgtcacc tgtgactcat 720
ggccggacct tcttgcctct attgtctcag cacaacatta ttcgactttt cctcagcgt 780
gggtgggcag aggaagagcc ctgtggctct ggggacttgg gatccagagt tgaagacct 840
tcagctggct ctgccctgcc agtgccacag agtgccatgg cccaggaaga caggttttct 900
tccatctagg ccaggccatc cagtggccat cctcctgtgc ctcccgcctc ctctggtgt 960
gacttctgaa aaccaagaat ttgttctctg tgactttttc tgtgctatgg accattgtcc 1020
tctcaccac tcaataaatc ttgaaacatg maaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaattac                                     1087

```

<210> 756

<211> 803

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (773)

<223> n equals a,t,g, or c

<400> 756

```

gacgggtcat gagegcggta ttactgctgg cctcctggg gtteatcctc ccaactgccag 60
gagtgcaggc gctgctctgc cagtttgga cagttcagca tgtgtggaag gtgtccgacc 120
tgccccggca atggaccctt aagaacacca gctgcgacag cggcttgggg tgccaggaca 180
cgttgatgct cattgagagc ggaccccaag tgagcctggt gctctccaag ggetgcacgg 240
aggccaagga ccaggagccc cgcgtcactg agcaccggat gggccccggc ctctccctga 300
tctcctacac cttegtgtgc cgccaggagg acttctgcaa caacctcggt aaetccctcc 360
cgctttgggc cccacagccc ccagcagacc caggatcctt gaggtgccc gtetgcttgt 420
ctatggaagg ctgtctggag gggacaacag aagagatctg cccaagggg accacacact 480
gttatgatgg cctcctcagg ctgaggggag gaggcattct ctccaatctg agagtccagg 540
gatgcatgcc ccagccagggt tgcaacctgc tcaatgggac acaggaaatt gggcccgagg 600
gtatgactga gaactgcaat aggaagatt ttctgacctg tcatcggggg accaccatta 660
tgacacacgg aaacttggt caagaacca ctgattggac cacatcgaa taccgagatg 720
tgcgargtg ggcagggtgt tcakgaracg ctgctgctcc tagatgttag gantcacatc 780
aacctggtg gggacaaaag gct                                     803

```

<210> 757

<211> 796

<212> DNA

<213> Homo sapiens

<400> 757

```

ggcacgaggg aagaagaaaa aaatggatgt tggaaagttg twgcatgtct ctctggatag 60
ctcagaagta tcagttgtgg ttattscctc acttggtttt tgtaagcatg aaaaagccag 120
ggacaatttc aactaccatt tctgaccatc atcaaccaca aatttttaggc aatttggttag 180

```

510

```

aatttttttt aaatgttctt aatagttggt gggtagctgg gagatttcag agaaagtaat 240
cacctttgta tatattatta atgtgtttat aatagaaatt aaattctttg ggatgtacag 300
gtaagataag ctatgtgaag catagctggt atccaagtcg tgtgcctttg aaatacttgg 360
aatttgaaga acaggacatg cagcttatgt tataattaat ttgcgagcaa tatatggcat 420
gatagtattt tcttatctaa attctgagtg cattgaaagt ttaaagcaaa ggacaaaagc 480
ttcctttggt catggcccat attccagtat atttttctga aactgccaat attttctgat 540
cggtagctttc atttttctag ttggttacca aatactgtta ttggtattat ttctatataa 600
aaggctttta gaagactata gtataatttt cttaagaaaa aagacatgat tataagctaa 660
aatatgcctt cggttttgtg tgctacaaat tgagggagat tgagaatatt ttaaatacaag 720
ggcmgacatt gagtaaaagc ttatgacttt ggatggattt gaaacaygat taaatgacag 780
agtaaataaa aaaaaa 796

```

<210> 758

<211> 335

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (271)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (312)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (316)

<223> n equals a,t,g, or c

<400> 758

```

aattcggcag aggggttagaa tcagtctaga aatcatgtca aattcttatac acttgctatc 60
aaactagctg gttcaattcc ttattagtga tctgcaataa gataaaatct tgtgctacaa 120
cataaagcaa ctatctcaat aaacacagtt taattcagct aactttattt ttttttgtag 180
caagawtttt tcagtgaat aagtgggtgtg ttgatttata gtttgggtgca agctccctat 240
cttcttgcag acctataacc attgtgccag nggtaagaa atggtcccca gccccttcac 300
ccgtggcact gnccncaca gggaacccct ttggc 335

```

<210> 759

<211> 1019

<212> DNA

<213> Homo sapiens

<400> 759

```

gtgggtgagct gagatgacgc cattgcactc cagcctaggc aataagagca aaactctgcc 60
tcaaaaaaaaa aaaaaaaaaa aagtctaaag gcttaaaagt tgatgcagct acctgaaatg 120
atcttttatt tattttattat tagaaaaagc aaaggcatat gggcattgct tattagtttg 180
aattctagag actagatctt aaagtagtgg ttctcaaagt gttgtgcccg caccaacatc 240
agaatggcct gcaaaacttg agcaaaactct ggggaggagg ccagcattct gtattttaac 300

```

511

```

aagcttccct caggagattm tgatgcctgc taaattttgg gaaccactgt tttaaaggaa 360
actttttttt tctttaatag catttaattg tatgasatga ttgcttttac atgtgatttc 420
cttgcaaatg ttctgaagtt gaggcacac caaacaagtc tgaacaattc tttatgtgat 480
ttatttttaa agtagacctt ttgaagagat ctatgaatgg gatataaagc aattttcagt 540
gttacagggt ttcttcttct tctcaaaact gtttgctgta agtaactgca atcagtactt 600
actactttcc atttgcttat gagtttcttg acaaatacaag gtgtagaaaa ccagttatta 660
agtgattttg tactttcctg gtagttgtca ctaaaataat ttttgtggca tataaatata 720
tttaataaaa tgcaaaaatt atcttctgt cttagtagaa aaattacatg agtaaagtga 780
agcttctgtc tttgttactg taccagggtga caacagmtga gtgtccctcc atggacagtc 840
actattggcc ttttgagtga gacagttctt taggataaaa rcctgtcatc ccattgcagg 900
attcatttag ctttctgtgg ccttaccas tgatgctagt cattgtgacc accccacctc 960
ccccaataaa aagtgtgcca aactaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1019

```

<210> 760

<211> 1504

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1383)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1441)

<223> n equals a,t,g, or c

<400> 760

```

ggtcgcggga aactccgggc ggcgagggt ggaccagagt cgagttccct cctcctgcac 60
caaaggggagc cgccaccgtc tgggtgtctaa accgcctcgg ttccagaaaag ctgagtctga 120
tctggattac attcaatata ggctggaata tgaaatcaag actaatcatc ctgattcagc 180
aagtggagctg tcaccactga ctaaagaaga gaaaactgcg gcagagcaat tcaaatttca 240
catgccagat ttatgaagaa atggacttgg aaaggaaatt ctaacagaga agagcttaat 300
tccggagaaa tttaggaaga tgtcttggtt acccttgatg tctagagatt gggggctggt 360
gaaggggggt tggcttcaat gactggataa tgatatcttt catgagagag attataagaa 420
gaaggggcaga taatatatga ataaagttca gccaaaagga tcaaatgaga ataaaacgat 480
ttaaatatat gtacacacgc atgcacacac acacttagtc ttgtaatttc aggccagaaa 540
ttctcaacac tattttgcat ctgttttctt tttctaagtc atgataatat agatgttctg 600
gtctatcata aaagaatgtt tatgtacatt tcagtcattc ggtatgtggc tttgtaaatt 660
aaagtatagg caaaacattt gtgttatata tgatatataa tttcattttg taaatgttga 720
ttgcacatgt ggtcacatta ttgttgagac tgcttttatg tgacctgtag tctcccacag 780
aacctaaagt aataagctgg cttttctgtg atagccacgt ttgcgtatct ctttccctat 840
ttcccttgcc tgctaattgt gaacagcatg aacttgcttt ctgatgctgt tttagactgt 900
ccctgttgta tctcaataat atctttgttt tcttcagcc tttattacta taattgttca 960
ttctacatga aagctaggaa actgraatta gaagagcact tatctgtctac ttgccagttt 1020
tgcgtgagtg tgttatatgt atgtgtcaat ttccctttta aataactatt tattttaaaa 1080
taactatttg caataaggaa actgttcaaa gtagaggcag atcttgatag aaagatgtta 1140
atcacagggt tgtttataat agcaatatac atacacattt ggctagtact aggtgaatag 1200
gaaaataaat catgctgtat gtatacaata agagggtcaag ttgccataaa attattactg 1260
ttaatgttct ggggraatgct graactatgc taartggggg agaggggraag caggtattgc 1320

```

512

```

arttttgtar tgaagattgg gctttggagt catatctgag atgtaagtag cagcttttaa 1380
atncctagct atgaccctgt gcagatcact taacttttga gtggtcagga tgttgggaagg 1440
ncaagacagg aaagtgggtt taataccagg gtcccagtat ttagtaagcc tccaataagt 1500
gata 1504

```

```

<210> 761
<211> 813
<212> DNA
<213> Homo sapiens

```

```

<400> 761
gggccgagggc aggggggatca cctgagggtca ggagtctcta ctaaaaatac aaaaattaga 60
caggtgtgggt ggtggggcgcc actcaggagg ctgaggcagg agaatcactt gaacccggga 120
ggcagaggtt gcagtgagcc agatcatgct gctgcactcc agcccggccg ctcaccgtgt 180
gtgttgctgg gtgctggggc tgtgacttay cccctctcct ttagccttgc cataagtgt 240
gtatcctatg aggctgagat tgggaaaggt tacatgcagg taagccagtg gacgtggccg 300
atgcttcagg ctccctccag ccagggtccag cagtgttacc atctgcttct cctgggagga 360
caaaccaggc acccccacca tgaaggggct gcaggcacca tgaactatgt taacaacccc 420
agtctgtact acagaaaggg ctgcagccac atgagaattc agtccacaca agccccatgg 480
ccgtgttccc cacttcagcc acaggggtca gggagcccca tctggcgcta aggggaactg 540
ctgggggtgt ggtgacacct ggcctttggc gttctgcctt ggggaggttt ctgggtttgt 600
tacgggggtg aagaatagga cctgggggtc tcggatgcaa cctgcagacc ccgtgggtca 660
cccaacccca ggttctgcct ccagaccag aacgggcatg gcctggctct tggcaccgag 720
gtgcctgtc tgtaaataatc aagggtattc aactttaata ataaagcaga acttgaaaac 780
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 813

```

```

<210> 762
<211> 2013
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (1976)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1995)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (2004)
<223> n equals a,t,g, or c

```

```

<400> 762
gcggccgctc caacatcaga atctgagctc cgggtgacgc ggctgcggta gctgcggata 60
caagccttcc gcgggtcctg cctggcgacc ccgacctcct cctgctgtct ctccgctccg 120
ccaccccgaa cccgccaagg tcctgtcctt ttctcctgt cctttgccag cggtgggccc 180
gaccgggccc agccggggccg cccggggcgca gtctttaacc atggcgctcc tcttcaagaa 240

```

513

```

gaaaaccgtg gatgatgtaa taaaggaaca gaatcgagag ttacgaggta cacagagggc 300
tataatcaga gatcgagcag ctttagagaa acaagaaaaa cagctggaat tagaaattaa 360
gaaaatggcc aagattggta ataaggaagc ttgcaaagtt ttagccaaac aacttgtgca 420
tctacggaaa cagaagacga gaacttttgc tgtaagttca aaagttactt ctatgtctac 480
acaaacaaaa gtgatgaatt cccaaatgaa gatggctgga gcaatgtcta ccacagcaaa 540
aacaatgcag gcagttaaca agaagatgga tccacaaaag acattacaaa caatgcagaa 600
tttccagaag gaaaacatga aaatggaaat gactgaagaa atgatcaatg atacacttga 660
tgacatcttt gacggttctg atgacgaaga agaaagccag gatattgtga atcaagttct 720
tgatgaaatt ggaattgaaa tttctggaaa gatggccaaa gctccatcag ctgctcgaag 780
cttaccatct gcctctactt caaaggctac aatctcagat gaagagattg aacggcaact 840
caaggcttta ggagtagatt agtcaaaaaga agtcatacta ttttgcttac ttataattat 900
gtagtataaa ccaagcacag tgcagatttc ttttacaaaa cacatgtatt ttgcaaaaaa 960
aaaaaaaaatg aagaccatga gtgaacagtt gtttcctaac ccatggctat ttagaatctt 1020
ttgccaaaga atgacaatga tgcaaaaatg ggaacagttt ggattttaat tagaactgtt 1080
taggagtgat gatgtgtaaa aagttgactt ctcttttgca tggcacagag aaattatatt 1140
ccttacttca tgtcagttta tgttctaaat ctttttctact gaatataaaa atcttgttaa 1200
atgccattag gcaccaactt aaagaggggtt gtaaaaatat taaaagtata tcgttaattc 1260
tgtatctgtt gcttgtcttt tgtaagtgat tatgtgttat gaccataggt gggtacagct 1320
gccaaattat ttttaaatgg tcaaaaagaa gagtgcattt taaacatctg tcttaaacia 1380
aaactgtcat aacttttctt ttttcttttt ccattaggag aacattctag ttggtaaatt 1440
tcaaaatgtg cttgacacct gccttaaata gcacagacct attgtgcaca tctttaaatt 1500
atttcagctg gcagaaaaga attacattta aaactgaaat caaggcctca atacaaagat 1560
tatcctggct cttttctatc tctgtgggcc taattgaaat atgtactctt attttagaca 1620
cgctctgtt aaaacagacc aggttttctt ggtctcagac ctatgatgac ttgtcccttt 1680
gatgtcacta ctgtgaattg aatataatta gtaaaaatag acgatgaata aataacactt 1740
tatagtaaga aaacaatata ttttgcccat ctaaaaatga gaattataat tatatgaatt 1800
ataattttaaa ctgtttaatt ttgtttaatg tgtatattga atcttccaaa ttgaagccat 1860
tattctcaat taagtactac aactatgaca atgcttgacc tacatttcta aaataaaaaat 1920
tcacattttt tgataaataa actacagttt taccagaaaa aaaaaaaaaa aaaaancccg 1980
gggggggggcc cggtncccat ttngnccctt tgg                                     2013

```

<210> 763

<211> 620

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (21)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (596)

<223> n equals a,t,g, or c

<400> 763

```

cactgtgcct ggccagattt ntttttaaga gattcatcat accttgacct gtgccccatt 60
tccctcctcc acctgtctga cctggcattc ctatttcggg agaccagaag tggggggaag 120
agaagggatg actgkttctt tgktttcacc attcctgcat gccatgcaaa ggaaggaata 180
ttgcgctttt aaatatymgt tttattaagt aagtggttac tctttcaarg acaaaaaaaaa 240

```

514

```

tgcaaatgtg  tacaaaactg  gcagtatttg  taagtgcag  cactacacgc  tgccttggtc  300
ttttaccaat  tgcatttgca  ttttaaggta  ctacttgtag  agccatgggt  gagaacagtt  360
tggagggttc  tctaaacact  gaaaatagag  gtgccacatg  atccagcaat  cccactgttg  420
gatatatacc  ccagaaataa  gaaatgagta  tatcgaagaa  attatctgca  ctccccatgt  480
gggttgcacca  ctgttgacaa  tagctaagat  ttggaagcaa  cctaagtgtc  catcaacaga  540
ttaatgtatt  aaagaaaatg  tggtagatac  acacagtgga  gtattattca  gcctanaaaa  600
gaatgagatt  cagtcatttg  620

```

<210> 764

<211> 1934

<212> DNA

<213> Homo sapiens

<400> 764

```

ccatgcactc  cagcctgggt  gacgagaaag  actccgtctc  aaaaaaaaaa  aacaaactct  60
tatttaattt  ttagttaaaa  ttaaaacact  agtacttcag  aatatagata  caagtacacc  120
atcttgaaga  atttggaggt  tttcagggca  attcaaatga  cctcattttt  tgttcttttt  180
gtattccaga  cagtgtttct  gtcattggat  ctctgattgg  tagtgttaat  aaatattctt  240
tcagtgtgag  ccagattcat  aaaattaatt  ttcttcattt  tagtagtaaa  aagtagtcta  300
atagcttttt  gtcagcttga  tttttktgtg  tgtgtaatat  tcaagggcag  aatgacagga  360
cagataagca  ataagaaatg  tatagaatta  gaaaatatag  tagttccctc  ttacccatgg  420
gacatacggt  ccaagacccc  cagtgaacgt  ctgaaaccc  ggatagtata  gacacctcta  480
tacactgttt  tttcctatac  atatatacct  atgataaagt  tctattttata  aatcaggggac  540
agcaagagat  aaacaataac  tgcaaataga  acaattataa  cagtgcactg  taataaaaagt  600
gatgtaaatg  tgatatgtct  gtctctttct  ctyaaaatat  cttattgtac  tgtactcacc  660
tgtaatcaga  ctgtggttga  ccgtgagtaa  cccgaaacca  cagaaagcaa  aatcgtggat  720
aaggggagac  tactctatat  gaaacttaag  ttacaaaatt  ctctgaagca  tttgaaacta  780
gacgttttgg  aattataaaa  tagtcccttt  aaaatatcca  ctagtagaaa  aaaacttcat  840
ttgcagagaa  aagattgcaa  taaaactcat  tcctaaactt  ttcaatttta  taaaattaaa  900
cattcttttt  ttatccgtat  taacaatttc  tagttacata  gtttctagtt  acatattacc  960
atatattact  ctttatctac  aaataaatag  ctgatactca  aactgatyat  attttgattg  1020
ttaaacactt  ggatctctca  atacttctgt  aagttaaagt  gaacttaaac  agtttcttga  1080
aaaactccag  taggtggcag  aatacctatt  gaatatctgt  tgctatactt  tgctgtttgt  1140
cattaaaaca  tctctaccca  tattcttgca  aaataatatt  tatattttta  tggataggaa  1200
aatgatttgc  aattagatgt  ttccattctt  gaaagaaaaa  agctgcaaat  aacattttca  1260
agaatataaa  aaaatgagta  aacaaaggga  aggttgtttg  gtcattttata  gacaattaag  1320
cacagactgt  agatgtcctt  ccaattcttg  ggaggctaaa  ctgagtctac  catttcttac  1380
atltctttta  cctatttttt  gagaattgcc  agttgtacag  tgttttagcat  gtggaatgta  1440
ccaaatatac  ctatgttggt  acttaagata  ttctaaatgt  ggataacttc  tgacctagga  1500
aacatgaagt  ttgtagtgaa  gtaagtgaaa  agaattgtca  ggaaatttwt  tttcyccatc  1560
tcttcagttg  gcatttattg  agagttttat  ttgaatgctt  attaaaagta  tatgatttat  1620
aatattttag  aaatagaaga  aaaaagaaaa  ctgtagatgt  tttatcttgt  ttttaatactg  1680
tatgttttag  acgtatacat  ttatgttcta  gtgtatcaaa  atttttcatt  ttcattaaag  1740
tgaatccaat  tttccataat  ctagggtccat  tttaaacccat  gaaaacttta  atcacatatt  1800
ttgtaaaggg  ctgaaagtat  gatttaaact  acagattgat  atattttta  tctaaatgaa  1860
aggtaatgta  aataagcatg  gatctgattg  aataaagatt  ttaaaatarw  aaaaaaaaaa  1920
aaagggcggc  cgct  1934

```

<210> 765

<211> 159

<212> DNA

515

<213> Homo sapiens

<220>

<221> misc feature

<222> (152)

<223> n equals a,t,g, or c

<400> 765

```
acctggcctc tctattctct mcttcctctt tctagaattt ctattaggcg gatgttgaat 60
ctcctgaatt aatctctaatt tttcttccct tccctttccc ttctccttcc ctcccttccc 120
ccttctctcc cctccctccc cctmccctcc cntccctc 159
```

<210> 766

<211> 436

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (414)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (426)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (436)

<223> n equals a,t,g, or c

<400> 766

```
acccacgcgt cckcccagaa tactgggtcc aaatacagaa tactagggtcc aaaagggtgc 60
catgcggctg gccttcctgc tgggaaggag tctgtctgtg tgtctgtctg tgtttaggaa 120
gggagggttg ggcaggcgag ggtcagagag cactgccgtg gggaggaggg tatccatttc 180
ctggtgatat ccttccattc aaagegggta tcccagaaca ggtggccagg gacgggtgag 240
ctggggaggg ccaggagaga gatctctgct tgtgtgagaa aggatggccg agctggccta 300
gaaccgctgc tagactatct ccaaagtttc tgcagcacc cgaagggtgaa ccagtgcctt 360
cagaccttcc ctgacaccta agccttggtc ctaggaaara aaaaaaaaaa gggnggccgc 420
tctagngggt ccaagn 436
```

<210> 767

<211> 752

<212> DNA

<213> Homo sapiens

<400> 767

```
tgcacccacg cgtccgcccc cgcgtccggg tgggtaaagg gccatgagcc caaaccacta 60
ggttgttcac cttttcatct gaaaatgctt tactctgact atgtgctatt gggttttatt 120
tccagaaaaat atagttctcc ttttttctgc atgaaggata catcgtggtg ccacatgctt 180
```

516

```

taagcaat t t t t aaacaagaga gataagagga aaatgcaacc accacatctg acttgcccaa 240
tgtagact t t t t cctctattag attgaagtac acaaccta atgatata t t t t t t t t t t 300
atctcagact ttgtaaataa ataccattat ttttatatgg aaat t t t t t t t t t t t t t t t t 360
ttctgtatac gtaattactc ctgattttct gaaattgctt ctggtagata acagacaagt 420
cctaagcagt gttccactaa ggggtgggtcc aggcctgcct gccgtggagt tgactggggg 480
aattttacag ttttgcgata ctaggatgcg tcccagacgc tcagtcagaa gtgctggagg 540
tggggcctgg gaagctgtat ttgtaatgaa ctctgggtgt ttttgtccat taaagtgtat 600
ctttgtccat cctataagat taaaggaaag aaaaagcatt tcaaatgagt gtaagttgtt 660
cttgagaaaa aaatgtatca gacttttatg atttgaatga aatgtattat agaaaaaaat 720
aaacacttta aaataatgtt agtctcatta aa 752

```

<210> 768

<211> 492

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (488)

<223> n equals a,t,g, or c

<400> 768

```

gcgggcgcgg ggtggcgctg caggtgggtgc ggggaagccag ccaggagagc aagttgctgt 60
sggtcatccg tgagaccagg gcggcgagtg gaagcacggg cggatcatcc tgcccagcta 120
cgacatggag taccagattg tgttcgaggg agtgataggg aaaggacgtt ccggagagat 180
tgccattgat gacattcgga taagcactga tgtccactg gagaactgca tggaacccat 240
ctcggtttt gcaggggggca cctcctgcc agggaccgag cccacagtgg acacggtgcc 300
catgcagccc atcccagcct actgggtatta cgtaatggcc gccggggggcg ccgtgctggt 360
gctgggtctc gtcgcgctgg cctgggtgct ccaactaccac cggttccgct atgcggccaa 420
gaagaccgat cactncatca cctacaaaac cttccactac accaacgggg cccctctggc 480
ggtggaancc ca 492

```

<210> 769

<211> 1174

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (7)

<223> n equals a,t,g, or c

517

<400> 769

```

gnccacncgt cccggtgacgt acatccggcg agtagctggc ggtcccgggt gctgctgggt 60
agtgtgctct gagggagggt ccgagccagc cgctgttttg ccggaggagc cctcaggcc 120
gtagtaagca ttaataatgt ctttcatctt tgagtggatc tacaatggct tcagcagtgt 180
gctccagttc ctaggactgt acaagaaatc tggaaaactt gtattcttag gtttgataa 240
tgcaggcaaa accactcttc ttcacatgct caaagatgac agattgggcc aacatgttcc 300
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```

<210> 770

<211> 2468

<212> DNA

<213> Homo sapiens

<400> 770

```

gaaggaaggc atcctctttg tcacctaccc agatggtagg ccaacagggg acgcttttgt 60
cctctttgcc tgtgaggaat atgcacagaa tgcgttgagg aagcataaag acttgttggg 120
taaaagatac attgaactct tcaggagcac agcagctgaa gttcagcagg tgctgaatcg 180
atttccctcg gcccctctca ttccacttcc aaccctctcc attattccag tactacctca 240
gcaattttgt cccctacaaa atggttagaga ctgtatacgc cttcgaggtc ttccctatgc 300
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gaagtctgcg gacagagcat ttatggctgc acagaagtgt cataaaaaaa acatgaagga 480
cagatatgtt gaagtctttc agtgttcagc tgaggagatg aactttgtgt taatgggggg 540
cactttaaat cgaaatggct tatccccacc gccatgcctg tctcctccct cctacacatt 600
tccagctcct gctgcartta ttctacaga agctgccatt taccagccct ctgtgatttt 660
raatccacga gcactgcagc cctccacagc gtactaccca gcaggcactc agctcttcat 720
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```

518

```

atcatgcctt cttgctaagt aattcaagca taagatcttg gaataataaa atcacaatct 1380
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taaaaacaaa ttaaatttta aaacacctga agatawatta gaagaaattg tgcaccctcc 1500
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gcttgaatgc aatgccgtgc agatttatgw ggctgtctatt tttattttct gtgcattact 2160
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ctgaaaagact ttaagatagg cagtaatgct tactacaata ctactgagtt tttgtagagt 2400
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aaaaaaaaa                                     2468

```

<210> 771

<211> 1488

<212> DNA

<213> Homo sapiens

<400> 771

```

tcgacccacg cgtccgcggg aagcgagccg cgcagcaaca aactcgccgc cgccgccctt 60
cagcgactgg rgccgcctgg aggcgcsatc ctcagcggct ggaagacctt ctggcagtc 120
gtgagcaagg agaggggtggc gcgtacgacc tcacgggagg aggtggatga ggcggccagc 180
acctgacgc ggctgccgat tgatgtacag ctatatattt tgccttttct ttcacctcat 240
gatctgtgtc arttgggaag tacaaatcat tattggaatg aaactgtaag agatccaatt 300
ctgtggagat actttttgtt gagggatcct ccytccttgg tcttctgttg actggaagtc 360
tcttcagat ctaggaatct taaaaagcc tatactctgag gycactgatg gtgcattttt 420
gactacatgg cagtctatag aatgtgctgt ccatacaca gaagagcttc aaaatccagc 480
cgtcctatgt atggagctgt cacttctttt ttactctccc tgatcattca gaatgaacca 540
cgatttgcta tgtttggacc aggtttggaa gaattgaata cctcttttgg gttgagcttg 600
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ggatcaggag tcaattttca gttgaacaac caacataaat tcaacattct aatcttatat 720
tcaactacca gaaaggaaa agatagagca agggaagagc atacaagtgc agttaacaag 780
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tatttttact ctttaccata aatcaattac aagaaaagag tttcagtcct agtatttagc 1380
cccaaatga acctttaaac attttttttg taatttttat attttctgtc tttttaaaaa 1440

```

519

tattaaattc tggaaaaaam aaaaaaaaaa aaaaaaaaaa aaaaaaaa

1488

<210> 772

<211> 547

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (352)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (534)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (535)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (546)

<223> n equals a,t,g, or c

<400> 772

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atTTTTgata gttcacaaac cactcacaaa agaatckgaa atttctccaa gtgttaagag 60
aaagcaagct atgaaatgct atatttgttag gcttaaaagt aaattagtgt gttttcttaa 120
aatctaaaac caagattaaa atgaatatag tcataggtat gaggggcatg taatttatct 180
tccgactgga gatacctttg agagttaaag gaggagcaat taattgttat tccaggacaa 240
cagatataaa tcgagattat actaggtgaa ctgggacata tggtcattct tgtcatagct 300
taattcagga aaaaaggagt tagggaartc tgaargtcta actcaaagtt tngatgcttt 360
ttaagcaagt ttaggggaact tgagatgacc tgattgagac ccctaaatct acagatgagg 420
aaagcaagcc tcaagcaagg ggggcctgac ctttcctgk tccctgkgt ttcctgkctg 480
kggcaaarcc cattgccttg attctcttct ctttactttc attttgagaa gtannttctt 540
tctgcng                                         547

```

<210> 773

<211> 1394

<212> DNA

<213> Homo sapiens

<400> 773

```

gcaaatatag acatcatatg tagtttgtac atgtttcaga aacttgTTTT ttctttgctc 60
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aaccagttct cagaccctag agtgtaagag cattgatttt ctacgctgtg taatctagct 180
caatccctct gtccccctccg cctcaccgtc cccagccac cacattgtat agcaaaagca 240
ttacattcaa tcttagaaya aaggtaaata caacaaatca tctttgcagc tggacaacta 300
ataatacttt gcagcattaa gagatcttct gtgttaccag tcaactctgtt gaaatgaact 360

```

520

```

ttccgaatct ctttattcag gaaaacatgg ggttttgaaa ttcttgggcc aagagacata 420
actgaggggt tcgcagagct aggcaagggt gcactaggaa agggccacat tgggtgggtgg 480
ggggtaacag agaacagatg gtgtcaggaa gtttctctgg agtaaataat gtggatatc 540
ttgggtttccc tctcctccgc cagctgaagc tgtgttagtg ctggtgacac taatataaaa 600
tgtttgggtcc atttgaaatc cttgtcattg ctttatatgg gggaaactca atcccccagc 660
ctgtgttgga aatatcacca aactgattgt aaatgtgcgg ctgtagcaga catttttagtg 720
tgggtggtgtg cagccatttc ggccctacac ctgccarcct ggctacctta cagttgtgtt 780
ccgatttttg cgtctatgct tgggtgtgct cacttgctgc attttccagc atgcaaccag 840
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agaaaataaa aacaagaaaa tcgttccaat gtaagatgtt tgttatagaa actttaggca 1320
atacaggtgt gtaataaaat gtttaataaa cttctaaca cttttgtatt tggataaaaa 1380
aaawaaaaat aaaa

```

<210> 774

<211> 667

<212> DNA

<213> Homo sapiens

<400> 774

```

agtcggtccc ggagctgctt ggaggcgggc gcactcgggg atcatggccc aagttgcaat 60
gtccaccctc cccgttgaag atgaggagtc ctccggagagc aggatggtgg tgacattcct 120
catgtcagct ctccagctcca tgtgtaaaga actggccaag tccaaagccg aagtggcctg 180
cattgcagtg tatgaaacag acgtgtttgt cgtcgggaact gaaagaggac gtgcttttgt 240
caataccaga aaggattttt aaaaagattt tgtaaaatat tgtgttgaag aagaagaaaa 300
agctgcagag atgcataaaa tgaaatctac aaccagggca aatcggatga gtgtagatgc 360
tgtagaaatt gaaacactca gaaaaacagt tgaggactat ttctgctttt gctatgggaa 420
agcttttaggc aaatccacag tggtagctgt accatatgag aagatgctgc gagaccagtc 480
ggctgtggta gtgcaggggc ttccggaagg tgttgccctt aaacaccccg agaactatga 540
tcttgcaacc ctgaaatgga ttttgagaga caaagcaggg atttcattca tcrtkaagag 600
stgaagtgtt tctccgttgt accatcacag tgatcggata attgaaatta gctacgttaa 660
tgattta

```

<210> 775

<211> 1610

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (465)

<223> n equals a,t,g, or c

<400> 775

```

gagagaaata gaaagaaaaa gacaaagaga agaagagagg aggaaatgga aagaagaaga 60
gaaacgaaaa aggaaagata tagaaaagct aaagaagata gacagaattc cagaaaggga 120

```

521

```

caaattaaag gatgaaccaa agattaagct gctcaagaag ccagaaaaag gagatgaaaa 180
agaattggac aaaagagaaa aagccaagaa attggacaaa gagaatctca gtgatgaaag 240
agccagtggg caaagttgta cattgcccaa gcgttctgat agcgaactta aagatgaaaa 300
accaaagaga cctgaagatg agagcggcag agactwtagg gagagggaac gggaaatatga 360
acgagatcag gagcgcatac ttcgagaaaag agagaggctg aagcggcaag aagaagagcg 420
ccgtagarga aggagcgcta tgagaaagag aagactttta agagnaaaga agaagaaatg 480
raaaaagaga aagacacact tcgggataaa ggaaagaagg ctgaaagtmc agaatacaata 540
ggcagctcag aaaaaactga aaagaaagaa gaagtgggtca agagagatcg aataagaaac 600
aaggatcgtc cagcgatgca gctttaccaa ccaggagctc gaagccgaaa tcgactctgt 660
ccccctgatg acagcaccaa gtctggagat tcagcagcag aaaggaagca ggaaagtggg 720
attagccata gaaaagaagg aggagaggag tgataagtcc agatggcctt aggtgtcctg 780
actgtctagg cagccaaaga gcacacgtta agcaatccag aggtgccttc agggcaaaga 840
atagagagaa agggagccgc tgtgctggtg gggtagactg cagaggagta agtcttgtgt 900
caaagcagga atctgatcag aggttcagaa ttggaagtac aatttcattg cttttgcaat 960
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ttgactcttg acaatccagt gtgtttgatc ttaggtctca tgatctgagt gcataccctc 1500
tccaggaagg aaactgcacc agtgtctatt cctgttaaat agcaactttt agtctcagct 1560
tgtttcgttt tgatgtcaat aaatagtaac agcaaaaaaa aaaaaaaaaa 1610

```

<210> 776

<211> 555

<212> DNA

<213> Homo sapiens

<400> 776

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ggcacgagga ggtaggaaa ccagttaaag ctgttggata tggaacttat ggacactatc 60
atatcaaaagt gggttggcat tttcctggtg aaaatgacat aaataaaatt aaaagacttt 120
tttaaatgaa tgcttggaaa ttgtaaaaac tgtcatattc tctttttatt tcttaacagg 180
atggcttaaa ttcccttggtc cttgatttag attttcctgc tttgaggaaa aacaagaaca 240
tagataatth cttaaataga tatgagaaaa ttgtgaaaaa aatcagaggt ctacagatga 300
aggcagaaga ctatgatgtt gtaaaagtta ttggaagagg tgyttttggt gaagtgcagt 360
tggtcgtcac aaggcatcgc agaaggttta tgctatgaag cttcttagta agtttgaaat 420
gataaaaaaga tcagattctg cttttttttg gggaagaaaag agatattatg gcctttgcaa 480
tagcccctgg gtggttcagc ytttttatgc ctttcaagat gataggtatc tgtacakggt 540
aatggagtac atgcc

```

555

<210> 777

<211> 221

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (37)

522

<223> n equals a,t,g, or c

<400> 777

```

ccctgtgcga taatattctt tcatcatttc agtgggnttt tggagggagg cggagatcca 60
ggtgatctgt ctacactatt cagtcagaaa gctggatggt tttctcact gtttagctgt 120
gactcatact tagaaagtgg tttaaagtgt aatatcttag ttctggttgt acaattgagg 180
taatcctcaa ttcaggttgc tgtctggaca tttcatgact g 221

```

<210> 778

<211> 760

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (134)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (721)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (722)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (723)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (746)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (750)

<223> n equals a,t,g, or c

<400> 778

```

aatagagggt aattttaccc agaagcagga tagagaaaat attacagaga aaatcacata 60
tcacatgggc tcgaaagatg tagagggttt tgacaaatga agaacaacca taacaggtag 120
agggaaacacc atgnaaccag ggcataaaac tgaagtgcc taacatattc tagagagaga 180
aggggtgtggg catgagtttag ggctggaaaa acagggttga aacagataag taagggtctc 240
aaatgcaatg tcaaagagct tgcagtttat tttccaggca atgagtaggc agccaaaaaa 300
aaaaagtaag gatgtttttt ttttttttcc catggcatca tatttaagag gatggattta 360
aattgtgtga gaccaaagca tagagactag ataagaggcg atcaaaatat ttcaaaaaga 420

```

523

```

aataatgaag atccaatgaa ggaagtggaa attaaaatag ggaagagagt agatggatta 480
gagagacatt taagagatgg aatcaataga tcctgttact agataatgga agtaagaggt 540
gaggaagagt ggaaaagtca ttaatgactc taaagatttc tgcttggctg cttaccaaga 600
ttggcaacaw amsggwggga raaaggtttg gaaaaagaag agaaaggata atgaagtttg 660
acttttacat agaaatgaaa gggcctttcc agatttggaa atcttttggg ttaaataatt 720
nnnaaatatt tgacctagaa aatttnggan ggaaaccttg 760

```

<210> 779

<211> 565

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (49)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<400> 779

```

tttatttttaa aatattttatt ttatgtacaa aaaggtaaca tggtttctnt cattgggtgg 60
gtgccttaga taatccattc gtggaagatc acttagtcca acttaatgaa atctatatcc 120
ttcacgtatg anggaaacac tgggtggcatg taacgaggct caatttccag atcagactgt 180
gccagtttc agcagacmca atagcaagaa ccctggctga cttttcggcg gtggctccag 240
tagagctgct ggtgaatcat cttgctttca ggagtgcgac agggcaaaaag gaacaataat 300
tcttcatatc catctactac agtttcaaag cacttcagtt acgcttttta aagttcatat 360
tcttccagtc ttgaccagtg ggaactgagc tcctgaatcc ttgtgatatg acctgggtatt 420
ttccatactt tccttttatga caagatgccc catccaggct cattttgtac atttctaatt 480
ccagacctag aatcagtcac cctccaagat gtccctgattc ccttttagtg aaattatttt 540
tttaacatta catattcaga caaat 565

```

<210> 780

<211> 1386

<212> DNA

<213> Homo sapiens

<400> 780

```

gctcagagga gcaatgacga ggtggcccca gaatttgtga aactcaaata agagtctcgt 60
tccacggagg aggggagctg aacaccttcg actcctgtgc caatcaggca gcagcaattt 120
caciaaatcag ggccagtgagg agttagctgt gtaaccggct tagggctctt gcagtcaaga 180
ggctgacccc ttcagttaaa gatatttaag gaaaaatttg ggggtggtgat aatatggctt 240
ttcacagaaa grgtcatgaa gccctggccc aacaggactg tgggtactagg ggctgggatg 300
tggggttacc acatggagag attttccatt aagagagaag gacaaacatt tctgagagtg 360
tcagccattc ttggtagaca cctctccact cctcatccca cctctaccca tctccatgcc 420
acaccttatc cagtttagaca catacatacc aatcattaga agaacaagtt tagaagggtg 480
ggaacttgtg cctggctggc tgggtagtca gctgagcctg ttgctgagcc cgggtggctg 540
gattggagta tggccagggc aggagtacac agaatagaat ttagactgtc ccttgagtag 600
aatccactga ttttctgtgg ctccagtgag aacaaggctt tgaaactgaa caagataact 660

```

524

```

tctagaaatg aactgtacta atccctttcc ccagattgta tcatgagtag aatcagggtc 720
acgtgggtgct tcaaagccct gagaagaata tttcttttga cccagggcac tagggggccac 780
ctgcctggga gtctccctgc ctcactcctc taggcagggg agtgatgctt caggacgtga 840
caggctgttc taacatgtgt ctacctgagg gctagttgaa ggatccagga gtattttctt 900
cttgggtggg ccctgaacaa agccaaaaat tgtagaaacc agtctagaaa aagtccctgct 960
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<210> 781

<211> 1229

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (305)

<223> n equals a,t,g, or c

<400> 781

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525

<210> 782
<211> 347
<212> DNA
<213> Homo sapiens

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<222> (186)
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<220>
<221> misc feature
<222> (302)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (329)
<223> n equals a,t,g, or c

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<210> 783
<211> 295
<212> DNA
<213> Homo sapiens

<400> 783
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cctccttcag ggcacatgag atcatattaa attctttttg agatagggtc tccactatgtt 180
gcccaggctg gtctttaact cctgggctca agcaatcttc ccacttcagc ccgccaaagt 240
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<210> 784
<211> 734
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (100)
<223> n equals a,t,g, or c

526

<220>
 <221> misc feature
 <222> (645)
 <223> n equals a,t,g, or c

<220>
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 <222> (663)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (706)
 <223> n equals a,t,g, or c

<400> 784
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 gagaactttc caaacaagta cctaaaactc atctgatgtc tgaagaggag tggaggagac 240
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 gagaaatgta caaatctttc atccatacct gtgcatgagc tgtattcttc acagcaacag 480
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 cagtcagttt ttctcttaag tgccctgtttg agtttactga aacagtttac ttttgttcaa 600
 taaagtttgt atgttgcat taaaaaaaaa aaaaaaaaaa aggggncggcc gccccaaaag 660
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<210> 785
 <211> 1311
 <212> DNA
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<220>
 <221> misc feature
 <222> (1265)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1291)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1310)
 <223> n equals a,t,g, or c

<400> 785.

527

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<210> 786

<211> 633

<212> DNA

<213> Homo sapiens

<400> 786

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acaaatggcc ttaaatcttc acggaattcc tggaaatgat tgtgaattgc cttcaataa 180
tagaaaagtg tatattattg tgtgtgtgtg tgtgtcaaaa atgtaactgc tttataatat 240
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tgaatgacaa tagtttgatg atttccttta ctgatcttaa atatttatgc cactacagtg 540
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atcaatatct ttttcttctt gtcaaaaaaa aaa 633

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<210> 787

<211> 1017

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (235)

<223> n equals a,t,g, or c

528

<220>
 <221> misc feature
 <222> (885)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (971)
 <223> n equals a,t,g, or c

<400> 787
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<210> 788
 <211> 2718
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (57)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (2713)
 <223> n equals a,t,g, or c

<400> 788
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 ttttgacata caatatggag tagtggttat tcgcctaaaa gaaggctctg atatatctca 180
 tcttcaagga caagaagaat tattgtcatc acaagagaaa tctcctggca ccaaggatgt 240
 ggtagtaagt gtggaatata gtaaaaagtc cgatttagat acttccaaac cactcagtga 300
 aaaaccaatt acacacaaa gttgaggaaga ggatggcaag actgcaactc aaccactgtt 360

529

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gaaaaaagaa tccaaaggcc ctattgtgcc tttaaagtga gctgaccaa agcttcttga 420
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<210> 789

<211> 2630

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1676)

<223> n equals a,t,g, or c

530

<400> 789

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agtagaagtg atggatgaaa ccaagtgtctg ctgttttttc aaacgaagga aaaggaaaac 180
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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 2630

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<210> 790

<211> 309

<212> DNA

<213> Homo sapiens

531

<220>
 <221> misc feature
 <222> (307)
 <223> n equals a,t,g, or c

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 ggccacagra cakagtctag acccaccaat agaggaaaga gcatcatctg agaaatagca 240
 ttgaaaagct gagagcccgc ctagaaactg atgagtagaa ccactctgtg tcttacaaca 300
 actgaanga 309

<210> 791
 <211> 640
 <212> DNA
 <213> Homo sapiens

<400> 791
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 ccaaggagct gctgacggcg ggaagcgacg gccgcggagg tatatgggac aggttgctca 180
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<210> 792
 <211> 590
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (237)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (267)
 <223> n equals a,t,g, or c

<220>
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 <222> (348)
 <223> n equals a,t,g, or c

532

<220>
 <221> misc feature
 <222> (548)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (572)
 <223> n equals a,t,g, or c

<400> 792
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 aattatattg tagggtgtta ccattttgtg tttcaagttc ctgagaagag aatttgaaca 180
 gtttgctatt tggaaatttt agcaaccagc taccttgcct atggaaagat taaaaanaaa 240
 actttatttt ggaaatttaa agacatncac aaaagaggaa caatataatt aacctctgtt 300
 aactcatcac caacaagact catgaccact tttatacttc atgagtgnat tgtatttgta 360
 tccactgttt tctattatct tcgagcaagt ctccagacaca ccatttaatc tgtaaataat 420
 tcagcatgta tctctaaaag acaaagacct cttaaataac agttcattag tataaaacaa 480
 attgggtaaa cttttgttgg tcatcaaac atattagcac tgggtccaata gtttaatttt 540
 cattgagnct ttcaagagga ccgaccagtc tnttgcctca gacatgctct 590

<210> 793
 <211> 459
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (41)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (441)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (447)
 <223> n equals a,t,g, or c

<400> 793
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 tttcaggagc tgctgaaaga ggccacggag cgccgggtct cagggcttct ggacccgctg 180
 ctgccccagg gggcgggcct gcggctgggt ggcgagggcct ttcactgccg gctgcagggt 240
 ccccgccggg tggacaagcg gacgctgggt gagctgcatg gtttccaggc tcctgctgcc 300
 caaggtgcct tcctgcgagg ctccggctct agcctggcct cgggtcgggt cacggccccc 360
 gtgtccggca tcttccartt ytytgccart ctgcamgtgg gagccggatg gggcagtgcc 420
 gtgtgctgtg acggggcgtg ngctganctt tctgggggc 459

533

<210> 794
<211> 1664
<212> DNA
<213> Homo sapiens

<400> 794
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cctacccacc tctcctggct gagccttgcc tgatacagca gcccggaggc accacttgct 120
tcccagagtct caccctccca ggcagctcct acactcaact gcttctctag gaaaggtctc 180
acctccagcc tggagcagtc gggattacag aaagccccat ccttggctta gggagcgcca 240
tgacgactga aattgggttg tggaagctga ctttcctccg gaaaaagaaa tccactccca 300
aagtgtgtga tgagatccct gacacctatg cccaaacaga gggagatgca gaacccccga 360
ggcctgacgc tggaggcccc aacagcgact ttaacaccgc cctggagaag attgtggaca 420
agagcacaaa gggcaagcac gtcaaggtct ccaactcagg acgcttcaag gagaagaaga 480
aagtgaagac cacgctggca gagaacctta acctctttga tgatcacgag gaaggacggg 540
catcaaagtg aagggctgag gaggggtgcta gcacctcttg gctccctgcc atcagccaga 600
tctgagacag gaccttgcca cgctggcctc tttggccata gctgaagctg tggggccagt 660
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gtaaggcctg ggagatccca gggctcctcca cctccccct gaccacatac aaaggcactc 780
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cagcaggagg gtgggcatgg cagggaatgg agagagtggg ccagacagac ttcacctcct 900
tactggacac aggggtcaagg gcgagtttca attgctgctc cctttacttt ctctacctgt 960
gactactccc tggaccaatc ctgaggaggg cacattttcc agaagccacg tgataggggc 1020
tggtttctgt ggagccagag gcagagacac tgaacttgag ctcacctcct aacaccggca 1080
gtaaaacttcc tggaaactttg ccctcaggtg cggagggggac agaggaccct ggcactctgt 1140
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tgggtcacta atttttacca tcaaacctag ccttagtatg gggatggggc aagcagaagg 1620
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<210> 795
<211> 1929
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (601)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (655)
<223> n equals a,t,g, or c

534

<400> 795

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gcgaggagaga gcgctatagc cggagcgcag gcatgtatat gcagtctggg agtgacttca 180
attgcgggggt gatraggggc tgcgggctcg cgccctcgct ctccaagagg gacgagggca 240
gcagccccag cctcgccctc aacacctatc cgctctacct ctgcagctg gactcctggg 300
gcgaccccaa agccgcctat cgcttggaac aacctgttgg caggccgctg tcctcctgct 360
cctaccacc tagtgtcaag gaggagaatg tctgctgcat gtacagcgca gagaagcggg 420
cgaaaagtgg ccccgaggca gctctctact cccaccctt gccggagtc tgccttgggg 480
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gacgscacac tgttctgggg ccaacgactt cgaagccctt ttcgagcagc gggccagtct 600
naaccgcgc gccgaacatc tggaatcgcc tcagctgggg ggcaaagtga gtttncctga 660
gacccccaa tccgacagcc agacccccag cccaatgaa atcaagacgg agcagagcct 720
ggcgggccc aaagggagcc cctcggagag cgaaaaggag agggccaaag ctgccgactc 780
cagcccagac acctcggata acgaagcgaa agaggagata aaggcagaaa acaccacagg 840
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gctggaattg gagaragaat ttctgttcaa tatgtatktg acgcgagagc mcgcctggag 960
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atgaaactca agaaaatgaa ccgagagaat cggatccggg aactgacctc caattttaat 1080
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tccttttgtg cctggtgata tttttttttt tcctccctga gtataaatgc aatgcgactg 1200
aaaaaaggca aagacctcag actctccttc caagggacct gtggttcgtg ctgcgaagat 1260
gcttccactt aaagcatgag aaatgggggtg ccgggatgtg ggggtgtggtg tgtgcctca 1320
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cacacagcat tctgttctcc atgcaaagtt aagatcgaat ccattccgctt gtaggggaaa 1440
aaaaggaaaa aaattaacca gagaggggtct gtaatctcgc agagcacagg cagaatcggt 1500
ccttcccttg tgcatttctt ccttagacta atagacgttt tggaaagtcc ggctagtgtt 1560
cgtgtgtttg tcgtagcacc cagagcctcc accaaacct ctccatgtct ttacctcca 1620
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cctcctagca cccccacatc ccccatctag taacatctca gaaatttcat ccagaggaac 1740
aaaaaaatta aaaatagaac atagcaaagc aaagacagaa tgcccccccc caaatattgt 1800
cctgtccctg tctgggagtt gtgttattta aagatattct gtatgttgta tcttttgcac 1860
gtagcttctt taatggagaa aaaaaaacct aataaatttc cagaatcata atcctcaaaa 1920
aaaaaaaaa                                     1929

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<210> 796

<211> 463

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

535

<221> misc feature
 <222> (389)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (399)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (439)
 <223> n equals a,t,g, or c

<400> 796
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 acaggcctga tttaatgcgg ctagtacgat tttaggtgag tagtaatccc gataaatcac 180
 gttgccttgg cgtgcgccac atccaggata ttggtttatg gctgcaaaac cgtaaccttg 240
 gtggcctgca gttagtgtct gggcgccctgc tgcttttgcg cctgctgctt attatactgc 300
 tgttgtgtgt gctgtacttt ttactgaacc ggcaamttaa ccaacamgtc caccamgtcc 360
 atcaccagag cccagggccg tgtgggcang aagtgttana aactaattaa tggacttacg 420
 gggaggggcta aataaccana gaaacctgga tgggtgggaaa aaa 463

<210> 797
 <211> 1069
 <212> DNA
 <213> Homo sapiens

<400> 797
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 cccagcaaca ccagcctcct ggccacctcc tctccaatgc ctgtgaaaga ggagtttctg 180
 ccatagcccc atgcccagcc tgtgcgcggg gggacctggg gactcgggtg ctgggagtgt 240
 ggctcctgtg ggcccaggag gtctgggtccg agtctcagcc ctgaccttct gggacatggt 300
 ggacagtcac ctatccaccc tctgcacccc cttggcccat ctgtgcagta agcctgtttg 360
 ataaagacct tccagctcct gtgttctaga cctctggggg ataagggagt ccagggtgga 420
 tgatctcaat ctcccgtggg catctcaagc cccaaatggt tgggggaggg gcctagacaa 480
 ggctccaggc cccacctcct cctccatacg ttcagrggtg cagctggagg ctgctgtggg 540
 gaccacactg atcctggaga aaagggatgg agctgaaaaa gatggaatgc ttgcagagca 600
 tgacctgagg agggaggaac gtggtcaact cacacctgcc tcttccctgca gcctcacctc 660
 tacctgcccc catcataagg gcaactgagcc ctcccaggc tggatactaa gcacaaagcc 720
 catagcactg ggctctgatg gctgtctccac tgggttacag aatcacagcc ctcatgatca 780
 ttctcagtga gggctctgga ttgagagggg gggcctggga ggagagaagg gggcagagtc 840
 ttcctacca ggtttctaca cccccgccag gctgcccac agggccagg gagccccag 900
 aggactttat tcggaccaag cagagctcac agctggacag gtgttgtata tagagtggaa 960
 tctcttggtat gcagcttcaa gaataaattt ttcttctctt ttcaaaaatg tataaaaaatc 1020
 attatacata gcattaaaga aacatttttt agaagtamaa aaaaaaaaaa 1069

<210> 798
 <211> 869

536

<212> DNA

<213> Homo sapiens

<400> 798

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tttttgtaga gagatggggg ttccgcatgt tgcccaggct aatctcaa atcctgagcta 180
aagcgatctg cccacctcgg cctccgaaag tgctaggatt acagatgtga accactgtgc 240
ctggcctgtt tgtttgtttg tttaaaacat ttctccatca ctcatccag gtcccagagc 300
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ggtcatactc tccaacagtt ttcagagctc catatatatg tagatgccat cttttctaaa 420
aacttctcac gacctccygg aatattccta ttgatctcat tttatttagc atcagctcaa 480
gaaactaagt cttagtgcac agtatcaca caaagaaaaa gctttgtttt tataactggg 540
aaaaacaaga aaagattctc atcaaaatga aaatataaaa ttaatcattt ctcaccaaag 600
agtatgcctg ggagcctcca gctgttaaaa gacaatgcta ttactacttc ttatcaaaaa 660
tctgtaatgc cctgtgattt ttatgatact tcttcaatac aaagtgttaa tatgtgtcat 720
cagtataata acaaccaaca aaatgccact ttcagaaaac tgtatgtaaa ttttttgtaa 780
caatgtaaaa aagaaatggg gagtaagtgt tcacatcatt aaaaggcttt gaattcatgg 840
aaatamaaaa aaaaaaaaaa aaaaaaaaaa 869

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<210> 799

<211> 1158

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (336)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1153)

<223> n equals a,t,g, or c

<400> 799

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caggtacagc tccaggggca ggcagtgcc agctggacct ggtggccctt tcctagtgcc 120
tctgctgggg gaggagaacc tctgtccacg tggaggctag gaggtactac caggccctgg 180
cagcaccaga gtgtggccgg gcccgagtgt ctccccctcg cctcagggtg gggcacttag 240
caccagaag ggacaaaaag cagggcattg cggtgcagag gagtttggga ggtgtaaaca 300
gccccatgca cgtggaggag gagactgttt cagecncaga cccacgcta gcactttcca 360
cgstgcttgc ccgctgttga tgtgcagttc ccagtgcctg tgtgagccga catctgtcca 420
gtcctatccc tcgtcagcgt gtggagaccc agctcctgca gccctcctgc tcccacgccc 480
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caaagctgcc tccacgtgcc caaggattca gatggtgcac tggccccggg aggagtctga 600
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gtgctggatct ccccttccc ttgtggggca cagctggcct gggcctccaa tcctgcggag 720
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tggcccagcc tgctgcagcc tcctgggggg cccttgatgc cactaatccc ccgaccccc 840
gcatctgcca aactgcacag acacacgcat tgtaaggccg cttgtggcct ccagcgtgca 900

```

537

```

ctcttgttta cgtcattgtc atcttcaaga ccagtccttt gtgattagtt ttgcttcgcg 960
agccctgggtg tggactgtgg tctgtatgaa tcgtgtgtaa ctgtgggtgag gggcttgtcc 1020
tgtatgtgag tctgtaccca ggtgggggtct gtgccctgca caccgggccc ctctgtattt 1080
atcgctgcct gaatgcaaca gtaatttata tccaggacaa atacagtctg ggcgtcacta 1140
tcctaaaaaa aanaaaaa                                     1158

```

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<210> 800
<211> 1412
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (9)
<223> n equals a,t,g, or c

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<220>
<221> misc feature
<222> (15)
<223> n equals a,t,g, or c

```

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<400> 800
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tttcctttta gtattcttga gatacaaaaa aaaaaagtaa atamaatttc aaaaaaaaaag 180
ttccggatct gtttttaagc tccatctggg cctcataacc tgcaagattt ttcttaaaac 240
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ttaacatcag ttgaaacctt aattttctta tgttgtgggtg attgtattaa aaagggtata 420
aagaagagtg tcaaacatgg ttaaataatat tgtactcatt tatgttgaat acgtattaaa 480
attaagacaa atggaaaaatt atactttgag tatataattt gttaaatatt actttatat 540
gtaattttat gtataatttc atatatgggt aaaattcaaa actacacttg agaatttttt 600
tatcttaagt ttgggggtgaa tgggggtggat gagactgatt gaatagaaaa gggctaattg 660
cccaaacatt atatagattt ctttttttca gtcagaggcc ttatttgata ttttataaat 720
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tgacacattc attcagatac ttcttatccc tgctaataaa ggaaatctat ttcaagctac 840
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tcctattttt tttttttttt tggttgttgt taaacagaac cttaagttta tgtttgaggt 1080
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ccaatttaat ttgaaaagtg cttaccctta ttcttatata tggtttaatt ttaagggttt 1200
ttgtctcttc ttagtgcaaa actacttagc agtgacctct atctgtattc cttaggaatt 1260
agcagcttct tagtgtggat cctgcagaac ttcttaccat ttgtagtagg ttgaatcatg 1320
tcccctagaa ggtaagtcta agtcctaact tgatacacct gggaagggtga ccatattttg 1380
aaatagtctt tacagatgtg attaggggat ct                                     1412

```

```

<210> 801
<211> 609
<212> DNA
<213> Homo sapiens

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538

<220>
 <221> misc feature
 <222> (32)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (600)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (601)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (606)
 <223> n equals a,t,g, or c

<400> 801
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 tgtgctagcc tgttctggggg aagatatcca tgtaattgag aaaatgcatc acgtcaatat 180
 gaccccagaa ttcaaggaac ttacatttgt aagagaaaac aaarcactgc aaaagaagtg 240
 tgccgactat caaataaatg gtgaaatcat ctgcaaatgt ggccaggctt ggggaacaat 300
 gatggtgcac aaaggcttag atttgccttg tctcaaaata aggaattttg tagtgggtttt 360
 caaaaataat tcaacaaaga aacaatacaa aaagtgggta gaattaccta tcacatttcc 420
 caatcttgac tattcagaat gctgtttatt tagtgatgag gatttagcact tgattgaaga 480
 ttctttttaa atactatcag ttaaacattt aatatgatta tgattaatgt attcattatg 540
 ctacagaact gacataagaa tcaataaaaat gattgtttta ctctgmaaaa aaaaaaaaaa 600
 ntatnngcc 609

<210> 802
 <211> 960
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (4)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (31)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature

539

<222> (951)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (956)

<223> n equals a,t,g, or c

<400> 802

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tgccaggccc  agcagccacc  acagcgccctg  cttcctcggc  cctgaaatca  tgcccctagg  180
tctcctgtgg  ctgggcctag  ccctgttggg  ggctctgcat  gcccaggccc  aggactccac  240
ctcagacctg  atcccagccc  cacctctgag  caagggtccct  ctgcagcaga  acttccagga  300
caaccaattc  cagggggaagt  ggtatgtggg  aggcctggca  ggggaatgcaa  ttctcagaga  360
agacaaagac  ccgcaaaaga  tgtatgccac  catctatgag  ctgaaagaag  acaagagcta  420
caatgtcacc  tccgtcctgt  ttaggaaaaa  gaagtgtgac  tactggatca  ggacttttgt  480
tccaggttgc  cagcccggcg  agttcacgct  gggcaacatt  aagagttacc  ctggattaac  540
gagttacctc  gtccgagtgg  tgagcaccaa  ctacaaccag  catgctatgg  tgttcttcaa  600
gaaagtttct  caaaacaggg  agtacttcaa  gatcacccctc  tacgggagaa  ccaaggagct  660
gacttcggaa  ctaaaggaga  acttcatccg  cttctccaaa  tctctgggcc  tccctgaaaa  720
ccacatcgtc  ttccctgtcc  caatcgacca  gtgtatcgac  ggctgagtgc  acagggtgcc  780
ccagctgccg  caccagcccc  aacaccattg  agggagctgg  gagaccctcc  ccacagtgcc  840
acccatgcag  ctgctcccca  ggccaccccc  ctgatggagc  cccaccttgt  ctgctaaata  900
aacatgtgcc  ctcaggaaaa  aaaaaaaaaa  aaaaaaaaaa  aagggggggg  nccccntccc  960

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<210> 803

<211> 708

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (692)

<223> n equals a,t,g, or c

<400> 803

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tgttgggaga  agaagggaga  aagtagtaca  agtagtgaag  aaaaaaatgt  aggtgggtgt  180
ggtggttgag  agtacatggc  acagaaaata  aaggagccag  gattacctgt  gcctttggct  240
tctccttccc  ctgctgcttt  ttcttccttt  ttccatgtca  gtgcttggga  accctcacia  300
ctggcaggta  acggggctcg  gataaaatgt  aaacctgtgg  gtgtcttctg  ctgagtcatt  360
aggatctttg  tagcaggctg  cggataaata  tgtggatgac  atggggcaac  taagagcccc  420
ttttgcttgc  cacctcccac  ccctgctctg  gatgggtgtc  cctcttgcta  gactgccggg  480
tacagatcac  gtggcaatta  aggcaaatgt  taataaatac  catgaaacag  tggtttgcat  540
agtcttctga  atagccatgg  ctttggttar  tcagcaacaa  agcctttcac  ccttaccctg  600
gataatcaag  agttgacaac  agccagaaa  tactgggaat  agtggctttt  ggccatgaca  660
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<210> 804

540

<211> 588
 <212> DNA
 <213> Homo sapiens

<400> 804
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 tgtatagcca cacttattct catgcacatg taattttwaa ctgtratgga tagagtttgg 120
 cgttccaggg agcatcgata gcactgcacg atgaccttgc tcttgtgttg cttagagatc 180
 tgccgacagc cggctcagtt ccatcttcag tcattgtgtt gcacagtgat acgatcattg 240
 ctggtctaaa cattgccata aacatgtctg tcccccaagc tgaaaggggg tttctgattc 300
 taagggaaca aaagggttttc tggcttaaaa gacttaagac atagtcttat aatagcttct 360
 ttaaaaaattt cagtgggtta taatgcatag gggtttttaa aaagagcyaa tgtgcaatat 420
 atacaatagt ctatcctact gacccaactt ctcccttcca gttctcccta aggacaattg 480
 ttaatcagtt tctgtawac ccttccagaa atatatgcag awgtggcawa tgtccaatta 540
 aagaaacctg atacatactg ttaaaaaaaaa aaaaaaaaaa aaactcga 588

<210> 805
 <211> 684
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (611)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (644)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (679)
 <223> n equals a,t,g, or c

<400> 805
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 gaattatgac tattcatttg ttaaaaaatac ctaagagcaa ttatagtggg acatctaagg 120
 tcctctgtaa acagtgaatt agcaaacctc agcctatgtg tttctaccct gatttttttc 180
 ttttcatggg tatctgaagc ctctaagttt tttcaaaaat ggagtatcac aaaattgagt 240
 gaaacacaaat acttaatgta ttgtactaga ttgccaaatt cataaaatgt taatggaagc 300
 tttttgatgt gattataatg gcactattct gggtcattatc ctattttgat tttatttaat 360
 ttttttaaagt tgaagaatta aatattttaa tggttctaat cttttgcatt ccatgttgca 420
 ttaaacctgt ttatatgagt agtcttctgt tagaatcaca tctgtgcttt tcttgagtct 480
 gctgttgaac tatttagatta agtcataaatt cataaaaatt tagtttaatg tgctctttgt 540
 aaaatgaaat tgtaaagaaa ataccagtggt ttctcatccc attgactcac accacgggtca 600
 tctgggattt ngggattccc tccakgcagc cagctawagt gggngtttcc caaaacaaca 660
 gggaatccct tcacccatng gggg 684

<210> 806

541

<211> 1204
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (4)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1033)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1050)
 <223> n equals a,t,g, or c

<400> 806
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 cgagtcgtgc gaggctgccc ttctcactca gcattatgga tccaagcctg ttgagagaaa 180
 gggagctgtt caaaaaacga gctctttcta ctctgtagt agaaaaacgt tcagcatctt 240
 ctgagtcatc atcatcatcg tcaaagaaga agaaaacaaa ggtagaacat ggaggatcgt 300
 caggctctaa acaaaattct gatcatagca atggatcatt taacttgaaa gctttgtcag 360
 gaagctctgg atataagttt ggtgttcttg ctaagattgt gaattacatg aagacacggc 420
 atcagcgagg agatacgcat cctctaacct tagatgaaat tttggatgaa acacaacatt 480
 tagatattgg actcaagcag aaacaatggc taatgactga ggcttttagtc aacaatccca 540
 aaattgaagt aatagatggg aagtatgctt tcaagcccaa gtacaacgtg agagataaga 600
 aggcctact taggctctta gatcagcatg accagcgagg attaggagga attcttttag 660
 aagacataga agaagcactg cccaattccc agaaagctgt caaggctttg ggggaccaga 720
 tactatttgt aaatcgtccc gataagaaga aaatactttt cttcaatgat aagagctgtc 780
 agttttctgt ggatgaagaa tttcagaaac tgtggaggag tgtcactgta gattccatgg 840
 acgaggagaa aattgaagaa tatctgaagc gacaggggat ttcttccatg caggaatctg 900
 gaccaaagaa agtggccctt attcagagaa ggaaaaagcc tgcttcacag aaaaagcgac 960
 gctttaagac tcataacgaa cacttggctg gagtgtgaa ggattactct gacattactt 1020
 ccagcaatag ggnacagttt tgcctgggan cagagttaca gatacacawt caagagtgkt 1080
 cttgctgatg ctsggggtct gaagactgtg ctccaaccg cttcttgctg ctgaggagag 1140
 gagcctttcg gtgtccgaag cagttggaag ttccagatca aggctttttg gggagatggg 1200
 ccat 1204

<210> 807
 <211> 1327
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (11)
 <223> n equals a,t,g, or c

542

<400> 807

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acggtagttt tttgttttgg ctatactaag acttggaat tattctctcc agtgtcagcg 120
aatccagaag ggtatcagat taaacaccga attcagccac tggactttta aaagtactta 180
agatggttta tctcgggttt tttcttcagt taacaaaatc ataaatatgg tgccttataa 240
catgaaagga aaattagttg tgtatttcac gacgaaagcg acggaccaa agaaatttcc 300
tgccccaaga agcatgggat ccaggaaggg gcgcgtagat gcttaacggg ctcttcggaa 360
atcctgcaaa tagaaagata attctagatc cggaatacct gtatctggtg gaaacctatg 420
atctctacaa gctcgaatta ttcttcattg tatagcctgc ttgtaaact agtttacaat 480
ttgcaggctg atcttaagat ttttttataat ctaattgctg ctgccttcac tttaggttca 540
gcagttactt ttaactacct taatttattg ccagaaggta tgagcctaac attctgatga 600
gtccagaaaa ctacgttttg tcagtagcaa tacactagga agtaaaatat atttagaatt 660
taaacattgt gtgccagtggt tcctcgcgct tgactgcaca tcagttactt gaagagccac 720
acctcagatc aatgcagtca gaacctggga agtaggtccc agacatcagg acctttttaa 780
agctcccaa gtgattctac gttcccaaag tttagaggacc acttttctgt gcattggctt 840
gcacaatttg aaaataatgc ttttctgag ctggatccca gtgttgctt aacaggggtg 900
ctgtcgtgcc gcagtagagc actgctgctt cctccaaccc caaaatttat gttcctaagt 960
aagtcaggtc cctaagcccc gtcccaagaa gtgacacaag tggccaacat ccacactgta 1020
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aacaagggtta cctacctcag gaggtgctt gtgagagagc aaatgcagta tcttcagaat 1140
gatttatatt ttttaattaat tgtaaagact tgtgccattg gctgctctt ctagtcccc 1200
aaatttctgt tctagtttta aatttctcta gaacttgcaa tagttggggg ttttataatg 1260
atgttttaca atgtttatct cttaaataaa aacttaaaaa ttcaaaaaaa aaaaaaaaaa 1320
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<210> 808

<211> 685

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (598)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (601)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (613)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (651)

<223> n equals a,t,g, or c

543

<220>
 <221> misc feature
 <222> (652)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (679)
 <223> n equals a,t,g, or c

<400> 808
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 tgccagtaac tgggtgtctgg ttgattgctt gccactgcag gtgattctga attgctgtga 120
 gggcagaaca cccaaggaga caatagaaaaa tttgttgacac agaagactg aagagaagac 180
 gctgactgct gagggtttgg taaaactcct ccaggctgtg aagacgactt tcccaaacct 240
 gggccttctg ctagagaagt tgcagaaatc agccactttg ccaagcacca caggtcattg 300
 agaagcttgt gaaacgtgac tctggttcag gtgggttcaa ttctctgata tcagcagttc 360
 tagaaaagca gactctctct gccacagcca tttggcaact gctgctggtg gttcaggaga 420
 caaagacctg tccattggac ctgctcatgg aggaaatacg aaggagcctg gtgccgatgc 480
 tttcttycgg gcagtgaaca cccagaaca tgccacttta gaaacaatcc tgaggcataa 540
 ccagttgatc ttggaggcca tccaacagaa gattgagtgc aagctcttta cctcgganga 600
 ngagcacctg canaaactgt gaaagagatt ctgagcattc ctctgagaca nncagccctg 660
 aaactttcct gaaaagcant gctga 685

<210> 809
 <211> 857
 <212> DNA
 <213> Homo sapiens

<400> 809
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 cagtgaagccg agatcgcgcc attgcactcc agcctggaca gcaagagcaa aactccgtct 120
 caaaaaacaa aaacaaaaaac aaacaaaaaa attccccctga gagaaaacct gtctttccag 180
 ccagaggagc aggaaaaaat gaccctatgg tctgaagaat gtggaaataa tccatctttt 240
 tttctctctc tgctttctgc ctgaggggag ttcctttttg caaaatgagc aggcagtgta 300
 ggcaggtaat catcagagag aaagcccac tttctaagcc agaggatgag gaaaaggggc 360
 cccctgggtg ccaggagagc tggggggaaa tcctgaagag caaagacctg aaaagaggat 420
 tctctaattc tgtacatgag ctgaattccg tgctcagccc agagctgcac atacaagaga 480
 cagagcccag gcaacacagc cacactctga actgacactc ggaccaccac caccaaacag 540
 aaggcaacgc aggacctgca gactaaggct aacgaggctg attgcctgac aaaacagaaa 600
 aaaaagaaac attcttcagg gaatttttagc agaacacaga gtctcccaac ataaaacaga 660
 cagtctctac tgcacagcag ttcagaactg taaaaatgac cttccaacct gaaactgcca 720
 tgtgctgttc ataatacatta atgggtaaaa ttgtgatttt tttcctgtct ttgaaaatt 780
 gtcaaaacat tgataatctt gtactgttag aaatgtataa ggaaacaata aagtaaatat 840
 ttttgtaaaa tgtaatt 857

<210> 810
 <211> 291
 <212> DNA
 <213> Homo sapiens

544

<220>
 <221> misc feature
 <222> (261)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (285)
 <223> n equals a,t,g, or c

<400> 810
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 ggtgtgggca tgctggattt tatatttcta aaaaccaata aaatttggaa ggcattgcct 120
 ctaaagtgtta cctaaaaaat agaaaacaca accataaata tgcctagtaa ttagcacata 180
 ttttatttca tagaaactga ttcttggtg gacctggtgg ctcacacctg gtagtcccaa 240
 cactttggga ggttgaagca nggggattgc ttgaaccttt gagtncagga g 291

<210> 811
 <211> 965
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (168)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (225)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (965)
 <223> n equals a,t,g, or c

<400> 811
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 aaagagtacg aagaactctt ggcatacgtg agagcaaata atcaccagca gcagcaagga 120
 cttcaagact caagttcaaa atgccaggca ttggaagaaa acaatctntc tcttcgacat 180
 acactatcag acatggaata cagactaaaa gaactggaat attgnaaacg taatttagag 240
 caagagaatc aaaaccttag aatgcagggt tctgagactt gcacaggccc aatggtgcag 300
 gctaaaatgg atgarattgg caaccactac acggagatgg taaaaaactt gagaatggag 360
 aaagatagag agatctgcag actgagggtcc caattaaacc agtaccataa agatgtttca 420
 aagagagaag gaagttgtag tgacttccaa tttaagcttc atgaactgac aagcttgctg 480
 gaagagaagg attccctcat aaagcgtcag tcagaggaac tctccaagtt gcggcaagaa 540
 atatatctct ctcataacca accctccact ggtggaagga ctactattac cactaaaaag 600
 tacaggacac aatatccaat cctaggcctc ctatatgatg actacgaata tataccacca 660
 ggtagtgtgaa cacagactat tgtgattgag aaaacagaag acaaatacac ttgtccatga 720
 atggrtccac tttaaagtat tacaactcaa agccgttttt tttgtgtgtg tgtgtctctg 780

545

```

cattagtact ttgttatttt tccatcacta aaggccaatc agaatttgga accatgctgc 840
taccaagaa atctaattgga atgaattagt tctgtagatg acaatttctt caccattta 900
tgagacctaa atcttttcca taacactcat gtattcagta twacacatac taactggaag 960
agggn                                           965

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<210> 812
<211> 1561
<212> DNA
<213> Homo sapiens

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<400> 812
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agcaaagcga agccaccaag ccatcatcat gtccacgtcg ctacgagtca gcccatccat 120
ccatggctac cacttegaca cagcctctcg taagaaagcc gtgggcaaca tctttgaaaa 180
cacagaccaa gaatcactag aaaggctctt cagaaactct ggagacaaga aagcagagga 240
gagagccaag atcatttttg ccatagatca agatgtggag gagaaaacgc gtgccctgat 300
ggccttgaag aagaggacaa aagacaagct tttccagttt ctgaaactgc ggaaatattc 360
catcaaagtt cactgaagag aagaggatgg ataaggacgt tatccaagaa tggacattca 420
aagaccaagt gagtttgtga gattctaaca gatgcagcat tttgctgcta cttacaagc 480
ttctcttctg tcaggactcc agaggctgga aagggaccgg gactggaaag ggaccaggac 540
tgaacagact ggttacaaag actccaaaca atttcatgcc ctgtgctggt acagaggaga 600
acaaaatgct ttcagcaagg atttgaaaac tcttccgtcc ctgcaggaaa ggattgatgc 660
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atztatccag ggtcactttg tcaggcccta ggacttaaat cgaagttgaa cttttttttt 780
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catgcataaa ttgtttactg aatttttata tctgagtgtt caaaatattt ccaagcctga 900
gtattgtcta ttggtataga tttttagaaa tcaataattg attatttatt tgcacttatt 960
acaatgcctg aaaaagtgcg ccacatggat gttaagtaga aattcaagaa agtaagatgt 1020
cttcagcaac tcagtaaaac cttacgccac cttttggttt gtaaaagggt ttttatacat 1080
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ttgtaaactt tgtggctttt ggtctgtgat gcttggctct aaaggaaaaa ataagatggg 1380
aatgtttgat atttacaaac ttttctaaag atgtgtctct aacaataaaa gttaatttta 1440
gagtagtttt atattaatta ccaaactttt tcaaaacaaa ttcttacgtc aaatatctgg 1500
gaagtttctc tgtcccaatc ttaaaatata aaatatagat atagaagttc aaaaaaaaaa 1560
a                                           1561

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<210> 813
<211> 941
<212> DNA
<213> Homo sapiens

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<220>
<221> misc feature
<222> (6)
<223> n equals a,t,g, or c

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```

<220>
<221> misc feature

```

546

<222> (11)

<223> n equals a,t,g, or c

<400> 813

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cgagacttcg gagactgcag ttgcagttgt tccgtgtagg ctgttggtga ctctcgtatg 120
aaagcccacg cgatccaagt gccctgcagg ttttggtcca gggaaaagtt ggtctctgca 180
gatgactgta aatgactacc tggaggtcga ttaaagtgcg gtactgcggg attcagccga 240
tttccttctt cctctgactg cccggaaata tcagccaaag gccagcggtc taaggacata 300
tgggaattggc tatggataat tcatatgctt tcaatcaacg aagcacatgt aatggaattc 360
catctgagaa gaaaaacaac ttcccttgat cagaagatca tggacaaaaa atcttaagtg 420
tactacagaa ttttagagaa caaaatgtct tttatgattt caaaataatt atgaaagatg 480
aaataatccc gtgtcatcgt tgtgtgttag cagcatgcag tgactttttc agggctatgt 540
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atgtggaaat gttcttccag ttgtcatcat ttcttcaagt ttcttcccta tccaaagctt 720
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cagatagcta tggctccacc agtttggttg atcatgcatt acactttgta caacatcact 840
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<210> 814

<211> 3692

<212> DNA

<213> Homo sapiens

<400> 814

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ccggagccgc ccggccagcg tccggcctcc ctgategtct ctggccggcg ccctcgccct 120
cgcccggcgc gcaccgagca gccgcgggcg ccgagcagcc accgtcccga ccaagcgcgc 180
gccctgcccg cagcggcagg atgaatgatt tcggaatcaa gaatatggac caggtagccc 240
ctgtggctaa cagttacaga gggacactca agcggccagcc agcctttgac acctttgatg 300
ggtcctctgt tgcgtgtttt ccttctctaa atgaagagca aacctgcaa gaagtgccaa 360
caggcttggg ttccatttct catgactccg ccaactgtga attgcctttg ttaaccccg 420
gcagcaaggc tgtgatgagt caagccttaa aagctacctt cagtggcttc aaaaaggaac 480
agcggcgccct gggcattcca aagaaccctt ggctgtggag tgagcaacag gtatgccagt 540
ggcttctctg gggccaccaat gagttcagtc tggtgaaact gaatctgcag aggttcggca 600
tgaatggcca gatgctgtgt aaccttggca aggaacgctt tctggagctg gcacctgact 660
ttgtgggtga cattctctgg gaacatctgg agcaaatgat caaagaaaac caagaaaaga 720
cagaagatca atatgaagaa aattcacacc tcacctccgt tcctcattgg attaacagca 780
atacattagg ttttggcaca gagcaggcgc cctatggaat gcagacacag aattacccca 840
aaggcggcct cctggacagc atgtgtccgg cctccacacc cagcgtaact agctctgagc 900
aggagtttca gatgttcccc aagtctcggc tcagctccgt cagcgtaacc tactgctctg 960
tcagtcagga ctccccaggc agcaacttga atttgtcac caacaattct gggacgcccc 1020
aagaccacga ctccccctgag aacgggtgcg acagcttcga gagctcagac tccctcctcc 1080
agtcctggaa cagccagtcg tccttgctgg atgtgcaacg ggttccttcc ttcgagagct 1140
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tggccggctt cacaggaagt ggacctatc agctgtggca gtttctcctg gagctgctat 1320
cagacaaatc ctgccagtc ttcatacagc ggactggaga cggatgggag tttaagctcg 1380
ccgacccccg tgagggtggc cggcgggtggg gaaagaggaa aaataagccc aagatgaact 1440

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547

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acgagaagct gagccggggc ttacgctact attacgacaa gaacatcatc cacaagacgt 1500
cggggaagcg ctacgtgtac cgcttcgtgt gcgacctcca gaacttgctg gggttcacgc 1560
ccgaggaact gcacgccatc ctgggcgtcc agcccgacac ggaggactga ggtcgccggg 1620
accaccctga gccggcccca ggctcgtgga ctgagtggga agccatcct gaccagctgc 1680
tccgaggacc caggaaaggc aggattgaaa atgtccagga aagtggccaa gaagcagtgg 1740
ccttattgca tcccaaacca cgctcttga ccaggctgcc tcccttgagg cagcaacggc 1800
acagctaatt ctactcacag tgcttttaag tgaaaatggc cgagaaagag gcaccrggaa 1860
gccgtcctgg cgctggcag tccgtgggac gggatgggtc tggctgtttg agattctcaa 1920
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atgtcatttc agaagttagt ttgtatatat tatwataatc ttataattgt tctcagaatc 2100
ccttaacagt tgtatttaac agaaattgta tattgtaatt taaaataatt atataactgt 2160
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```

<210> 815

<211> 1427

<212> DNA

<213> Homo sapiens

<400> 815

```

tcgaccacg cgctccgcca cggcgtccgc aaagcctgag tectgtcctt tctctctccc 60
cggacagcat gagcttcacc actcgtccca ccttctccac caactaccgg tccctgggct 120
ctgtccaggc gccagctac ggcgccggc cggtcagcag cgcggccagc gtctatgcag 180
gcgctggggg ctctggttcc cggatctccg tgctccgctc caccagcttc aggggaggca 240
tggggctccg ggcctggcc accgggatag cgggggtctt ggcaggaatg ggaggcatcc 300
agaacgagaa ggagaccatg caaagcctga acgaccgcct ggctcttac ctggacagag 360

```

548

```

tgaggagcct ggagaccgag aaccggaggc tggagagcaa aatccgggag cacttggaga 420
agaagggacc ccaggtcaga gactggagcc attacttcaa gatcatcgag gacctgaggg 480
ctcagatctt cgcaaatact gtggacaatg cccgcacgt tctgcagatt gacaatgcc 540
gtcttgctgc tgatgacttt agagtcaagt atgagacaga gctggccatg cgccagtctg 600
tggagaacga catccatggg ctccgcaagg tcattgatga caccaatata acacgactgc 660
agctggagac agagatcgag gctctcaagg aggagctgct cttcatgaag aagaaccacg 720
aagaggaagt aaaaggccta caagcccaga ttgccagctc tgggttgacc gtggaggtag 780
atgcccccaa atctcaggac ctcgccaaga tcatggcaga catccgggcc caatatgacg 840
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gcaccacagt ggtcaccaca cagtctgctg aggttggagc tgctgagacg acgctcacag 960
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gcagcaactc catgcaaac atccaaaaga ccaccaccg ccggaatagtg gatggcaaag 1320
tggtgtctga gaccaatgac accaaaagtc tgaggcatta agccagcaga agcagggtac 1380
cctttgggga gcaggaggcc aataaaaagt tcagagttca aaaaaaa 1427

```

<210> 816

<211> 425

<212> DNA

<213> Homo sapiens

<400> 816

```

aagctggtac gcctgcaggt accggtccgg aattcccggg tcgaccacg cgtccgctga 60
tgacaagaac gatgaaaaat gcatgaaagt tgacttagta tcttttcata ttcacctatt 120
atggttgata atgatagctc tggtaacaagt gataaggatc atagtgaat acttgatgga 180
attagtaaca taaaactgaa ttcagaggaa gtaacacaga gccaataga ttcctgtaca 240
agtcattgat gtcattcaaca gctaagttaa gtttagtagc aaagagagtg ccttgccttc 300
ggccaaagtg aaccacgtaa tggaggaacc aatgaggaaa gcaactcata ggggaataca 360
aacacagacc caccagctga ggattcacag aagtcttcag gagcraacca agcaaagaca 420
gacca 425

```

<210> 817

<211> 375

<212> DNA

<213> Homo sapiens

<400> 817

```

gtaccggtcc ggaattcccg ggtcgaccca cgcgtccggg gaggtctagg aagatcctga 60
cacataagaa ctttggttta gagagctttc cagggtgtagt gccataaaaa actgacctgg 120
aaagaaaacc tgcccagcac ggaacatgct ttctgaactc acttgagagt gtatggtgta 180
tgtcacttct catatattct tgagttttaga tttgtctttt atacaatttt tagctctttt 240
ccagttcact tgtgctcgtc tgtatattgg tattttttaa tttttgtggg aaataatgaa 300
aagagtgaag ttatatttta taattactca tttgtagttt tttttttaat ttaataaact 360
tcctccaaaa agtgc 375

```

<210> 818

<211> 1216

<212> DNA

549

<213> Homo sapiens

<220>

<221> misc feature

<222> (1213)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1214)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1215)

<223> n equals a,t,g, or c

<400> 818

```

gggggtaata gcctttgcga tatttaaagt tgtggggttaa tttttttatc cagtttaata 60
actttttatt cctccctcta cttcttttgc tctcttttct gctctgaagc cgtggataca 120
gaaatctctg caggcaagtt gctccagagc atattgcagg acaagcctgt aacgaatagt 180
taaattcacg gcatctggat tcctaatact tttccgaaat ggcagggtgtg agtgcctgta 240
taaaatattc tatgtttacc ttcaacttct tgttctgggt atgtgggtatc ttgatcctag 300
cattagcaat atgggtacga gtaagcaatg actctcaagc aatttttggg tctgaagatg 360
taggctctag ctccctacgtt gctgtggaca tattgattgc tgtagggtgcc atcatcatga 420
ttctgggctt cctgggatgc tgcgggtgcta taaaagaaag tcgctgcatg cttctgttgt 480
ttttcatagg cttgcttctg atcctgctcc tgcagggtggc gacagggtatc ctaggagctg 540
ttttcaaatc taagtctgat cgcattgtga atgaaactct ctatgaaaac acaaagcttt 600
tgagcgccac aggggaaagt gaaaaacaat tccaggaagc cataattgtg tttcaagaag 660
agtttaaatg ctgcggtttg gtcaatggag ctgctgattg gggaaataat tttcaacact 720
atcctgaatt atgtgcctgt ctagataagc agagaccatg ccaaagctat aatggaaaac 780
aagtttacia agagacctgt atttctttca taaaagactt cttggcaaaa aatttgatta 840
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tggtcctgta ttgccagatc gggaacaaat gaatctgtgg atgcatcaac ctatcgctcag 960
tcaaaccctt ttaaaatgtt gctttggctt tgtaaattta aatatgtaag tgctatataa 1020
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catattgaac acatttaaga tttgagggat ataagggaat atgatatgaa tgtgtatttt 1140
tactcaaaat aaaagtaact gtttacgttg aaaaaaaaaa aaagggcggc cgytytarag 1200
ayccarctta ctnnnc                                     1216

```

<210> 819

<211> 1304

<212> DNA

<213> Homo sapiens

<400> 819

```

aaaaaaaaaa aaaaaaaatc taagatagag gtttgggtcaa cagtgcctaa taataaataa 60
gaacctcctg ccatttcta tttcctgctg caccatccccc cccacacacc cctcacgaac 120
attgatataa gcagtattaa cacagtataa agaattgttca ccttgcatat gtcatttcag 180
gcacatggat tcaggagaag cacagttgag tggaagaaat ggtagacttg tgaggcttgc 240
cccaggcctt gtgtacacgc aataagtggg gagccatggg tctctccgtc agcgcctccc 300

```

550

```

tccccgccac cacttcaggc caacaattta aggtgctgag ttgtaaggct cctccattgt 360
cagtacaggg ctgcgctttg tagccctgat cactaccagt acacttttca agacaactga 420
gtatttttgt atgcctttgc ctccctttg tccatgaaac atgaagagtt gtttatgggt 480
cttgacttct ctgagcagag tgtctgcac tcttgagag ttacacattt cttcatgagc 540
catttttctc attcttagat gcacctgttt ttatcctttg cagaccatct tctgccttct 600
tattttcctg tctgtcaaag acagaaatta caggagatag ggagggtttt ttagcatctc 660
tttcaaaaga tgtatgtcag aatttccttt gcacaccaag aactggagct tagagcccca 720
ctattctcta agccaggttc tagtgacctt cactccagaa tgtcagatgg tgggtgcaga 780
ttggaagaaa gagaaaagtt catctcgggtg tgtgggttcc catccgcccc acatagcctc 840
tccttcttcg gaacaatggg cgtggggtag aaagctcttt cagtgaagggtg tttcttagca 900
gctcagttaa cactttactc tccagtcac acttgggaca tataaaaatg ccattgtaac 960
tactgtagag tcctgtgact catcgtttgt gtttgtcart ktgcagttca gcttagccct 1020
tcctgttcc tgtgtagtta caatctggcc ctgaagacat ccgaggcact tcagtaagtgt 1080
ggatcttttc tagagatcct ggggtgacttt ggggtgcacag ggtgaccgag catttctgcc 1140
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tcttctcatg ttactgggtt tgtaaatgaa taaacacatt ttaactactc ttgcacgggt 1260
gcttgtgaaa aaaaaaaga ataaaaaaa aaaagtttgt cgac 1304

```

<210> 820

<211> 994

<212> DNA

<213> Homo sapiens

<400> 820

```

gcggccgcag agactgggtc gccttggatt cctctgcct ccgaggacct caaaagacac 60
ccccaacccc aggccagccg gccctgctct ggcgcgctca aaatactacc tagcacaggc 120
ctctgctcga ggcaccccc aactacctat gtatccagcc ccagagggcc tccattccca 180
ggaagtccct atgtatccca aactggcag acaccagca ccacctccc agaccgcaa 240
gaaagtgaat ctactacta cctactcccc taaaactacc tattttgtgc tggctggctt 300
gcctgtacc tagtgccgac tgcctccagg caagtcacct gctgcttaca gcccgcagct 360
tttgggggtc ctgaggctgc cctgagaatg tgcctgaggt caggatcagg gtattggcat 420
ctattttaa atcgaaaaata tatatttatt caaaaagca tcctaagtgc ttgcacccta 480
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wggaggggaa tgttcctgag ctggctgcag atctgtgggt tagcttctgc ttagcaggac 600
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tgtgttaa atatgtacgcc tgatgtttcc tataatagca gatactgtat atttgaacaa 720
gatttttwt tatcatttct atagtcttgg agttcatttg taaggcagtg tcttgacttg 780
gaaaggatgt gttaatgggg tgactttgta gcatggatg ttgtcttgag ttaactgtag 840
tgggtgggga ggtccaatgc cctccgcaat gcccttcac tcctgtgttg tcctgtaccc 900
tgctcagctc catcctgggg ttccagggaag gcacacttcc cagcccagct gtgttttatg 960
taaccgaaaa taaagatgcg tggtgacaaa gaaa 994

```

<210> 821

<211> 498

<212> DNA

<213> Homo sapiens

<400> 821

```

caataggaac gtcaagtttt gcaaatcatc ctccagctgc aagacttttt ccagctaaca 60
aggaacgtga agaaatwcag actttaaaac agcaawtrgc agwtttacgg gaagatttga 120
aaagwawgga rwccaaatgg tcaagtacac acagccgtct cagaagccag atacaaatgt 180

```

551

```

tagtcagaga gaacacagac ytcggaag aaataaaagt gatggaaaga ttccgactgg 240
atgcctggaa gagagcagaa gccatagaga gcagcctcga ggtggagaag aaggacaagc 300
ttgcgaacac atctgttcga tttcaaaaca gtcagatttc ttcaggaacc caggtagaaa 360
aatacaagaa aaattatctt ccaatgcaag gtaagaggct gcatgatctt tttataaaac 420
atttcagaat gtaaggaata aacaatttat acccaactta ataaaacatt tcttaataaa 480
tgtttttgaa catttgaa 498

```

<210> 822

<211> 796

<212> DNA

<213> Homo sapiens

<400> 822

```

accatgatta cgccaagctc gaaattaacc ctactaaag ggaacaaaag ctggagctcc 60
accgcggtgg cggccgctct agaactagt gatcccccg gctgcaggaa ttcsgcacgm 120
ggtcraggta atgaatacat acatttttct gtgataaaac tcttaaaagt taattttaat 180
gtattaatag tattcctaata gtgtgctgca gaaatggcta tgagcctctt aaatttacat 240
ttgcaactta aaggtagttt tagaaggaag tacaaattgg ctttcattctt gcaaacaatc 300
gttttttact tcattatctt aatttgcttt gtcactcata aaaaggaaac catacctgag 360
ttgtagacaa tgaggaaaca cttgaggctt ctgctgtgtg ttcttttgtt attgttggtta 420
ttgttggttac tcagtaactt gaatattgtt taatgtgttg taagacgtag agtttatctc 480
aagctgttaa aaatggtaat gtacaaatgt gaatagacac ttatctatat aatatgggta 540
agttttgttt cgcctataat agatgtttat aaaaacaagt gaggggacag ttggtctttt 600
tatcttttct ttctttttct ttcttttctt tttttctttt tttttttttt tttttttttt 660
gtttccacag gttgcactat tgaaaaatcg agattgtata aacctggtaa aaagctgcaa 720
gatgccaaaa tcttgtagat gtcaaataaa aagttattat actaaaaaaaa aaaawaaaaa 780
aaaaaaaaaa aagcaa 796

```

<210> 823

<211> 503

<212> DNA

<213> Homo sapiens

<400> 823

```

aatcgctgaa ccaggagcgg agttgcagga ggagaytcac cactcacttc agcctggtga 60
cagrgggagc tctktcttaa aaaaaaaaaa aaaatcatct gtaaaataaa ttccgggata 120
gtcgttttgt tcaaggaaat gttttgtaaa ttgagctcac actatataat ctttattgtc 180
ctatcctgat gtataataca gcagggtataa ttacaccaag cgctatagtt ataaatatgg 240
catgaagtga actatggcct tttatttctt tccagtgtga acacagcagg tgtgagatgt 300
catcttggaa gacaggcctt gcagaaatag gcctacatcc aaaatattat cttgtgactc 360
catgaaccat tcattaaccc tttgtatctt tgagtgaata ttttactcaa aagttgcac 420
tggaagtctg aagaaattac ttgaaataaa aataaagatt tctatataga taaaaaaaaa 480
aaaaaaaaat cggcgcgcaa ttc 503

```

<210> 824

<211> 588

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

552

<222> (7)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (555)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (560)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (570)
 <223> n equals a,t,g, or c

<400> 824
 gctggcncgc ctgcaggtac cggtcccggaa ttcccgggtc gacccacgcg tccgtttgaa 60
 tcctttatta tttttaattt tagaaatata acagttcaca tkgcaatatt ccctttaatt 120
 tactatTTTT aaaggggtat tgtaaatatg aaagtattta taaagtgaat tgctatTTTT 180
 tctgttcaga aaagtacaca cttaaaattg ttattgttaa caatgtgtaa acacatttaa 240
 aattgttatt gttaacaaaag aaatcatgga gaactgtaga ggttttcaca gtggatccat 300
 tttctgacag ttttctacta tctattaaat catatctgct taaatatata gcttctatct 360
 gtctttaaat cttctcatta aaatgtataa gcagtgaytt tgatctcaaa aataggtaat 420
 ttttctttgc cgacctgtaa aagtgtgcc aatacactaaa tttgtgattt taaattaatt 480
 cctccagctg ttgaaatgaa gtctgccaaa tcttgcctca acaaataaaa tgttatyttaa 540
 atgaaaaaaaa aaaangcgc n ttaagaccan tactcctctc acgctctt 588

<210> 825
 <211> 965
 <212> DNA
 <213> Homo sapiens

<400> 825
 tgtttttatt tttaaactat caatgttggt taaaataatc atgtacttgt tgagttcctg 60
 aggtttggaa caaattacac ataaaattta gaatacttta tttctgaaaa gcatatacat 120
 atatgttatg tttatTTTT cttgttgatt agaaagggtga tggaaatatg gacaatgcaa 180
 aatkaattga taatTTTTct gtattttgag tgaaagttgt ctgtaatatg tcaagcaaga 240
 atgttataat tctacagtaa tgtgtgactt catgacagag ctacattctg agaaatttgt 300
 cattaggtga tttcatcatt gtgtgaacat catgaagtgt acttacacaa acctaggtgg 360
 tagagcctac tgcacacctg ggctagatgg caaagtctgt cgcttctggg ctacagacct 420
 gtacagcatg gtactgtatt gaatactgta ggcaactgta acacaatggg atctgtgttaa 480
 tctaaccata gaacagataa tacattgtgc tacaatgtaa caatggctgt ggcattcacta 540
 ggtgatagga atttttcagt tccattataa tcttatagga tctctgtcat atgtgggtcaa 600
 ttgttgatcg aaacatgact gtatgtcgta ttttcagaaa atggaatagg taatcatcac 660
 ttgtgtgaat tttaatcaaa tgacttagga aagaaaactgg atgtttcaaa agctgttgca 720
 tttattacaa atgtcacaaa tacagctctt gcctttttgag aatgttggag agatgtcttt 780
 aaaaaatatg tttgtgtgta aaaatgtgtc tgtatgcaat agctagaaaa atgcctgtgt 840
 cttaagtcatt tactcatggt ctaatttttg ttctttgtac tatttatctg tatgcttggt 900

553

cttcagtatt tcagactcaa aataaattta tttttttatg ttaaaaaaaaa aaaaaaaaaa 960
 aaaaa 965

<210> 826
 <211> 454
 <212> DNA
 <213> Homo sapiens

<400> 826
 agtggcaggt gtgtggccct gccctggccc cgtagtgagt gtggggccca cctgtgccct 60
 catgggcagc tgaaggggga gctttctacc ccagggttct ttccttactg aaaagtcttg 120
 agcaaacagt tgccgctctc cccccctgc tttttaaaaa aaattttttc tcacgtaaga 180
 aaatgttatc tgtgtgctgg ggaaaatttt gaaaataaca aaaaccagaa taaaaacacc 240
 cataatcaat cacagagata accactgttc ataattcctt ccagtcttct tacttggcac 300
 atatacatct gtctttcttt atatatgaca tatggatatt ttacaaagtt aggatcctac 360
 tctatgcact gcttgggtgat cggatctatt caatgtacaa aatattttga aagtttctgt 420
 gattaaatgt tctttgaaaa cataaaaaaa aaaa 454

<210> 827
 <211> 754
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (83)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (502)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (752)
 <223> n equals a,t,g, or c

<400> 827
 actatagggt aagctggtac gcctgcaggt accggtccgg aattcccggg tcgacccacg 60
 cgtccggtct ttggattcta atnaactcag catcaatttc tcacctcaga ctacagtga 120
 tttttatttc ctatcagctg aaatatattca cagatggaag ctcatgtttc agttttaatg 180
 actgccttga ataaacaagt tgttgccact tgtttcaaac aaaagcctaa aaataatcta 240
 cattcaatct taggctccat tgactaatat ggtgttgctt ttggaagtac tgtatatcct 300
 cacatggaag ccaaatgtgt aaattatttg aaggacacac cactgtacag aaagtagtgt 360
 ttcaaatata aatcgaagaa caaagagtgc tccaaaaaat aggtcattct tttattttca 420
 taaagtatct aaactgtact aacattcagt gttgtgtttc attctaaatt tgcagctgaa 480
 ataaatttat ttgcgatarg anaatatctt attattcatc ctcagaaata aaggatttga 540
 agggatagag attatatgat aaatttatag aagactttca gaatttgaat gcattttgtt 600
 tagtgttatg aaatgacaat aggaaaaaag tctcgacttc aattttaaag ttacacaaac 660
 aaacaaatct acaggcmtgt ctttatatac cctcagggtc ttaggttttc caaaggaaat 720

554

ttgttgggat ataacttggc gggttaactc cntt

754

<210> 828
<211> 1437
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1433)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1435)
<223> n equals a,t,g, or c

<400> 828
aaggggagat catctgagtc caccacaccc ttgaatgttt cccgcgagac tcttcagcaa 60
cataaactgc ttaaggtgat taggaagaag cttgttcgta aaacgctgga catgatcaag 120
aagattgctg atgataaata caatgatact ttttggaag aatttggtac caacatcaag 180
cttgggtgtga ttgaagacca ctggaatcga acacgtcttg ctaaacttct taggttccag 240
tcttctcatc atccaactga cattactagc ctagaccagt atgtggaaag aatgaaggaa 300
aaacaagaca aaatctactt catggctggg tccagcagaa aagaggctga atcttctcca 360
tttgttgagc gacttctgaa aaagggctat gaagttattt acctcacaga acctgtggat 420
gaatactgta ttcaggccct tcccgaatth gatgggaaga ggttccagaa tgttgccaa 480
gaaggagtga agttcgatga aagtggagaa actaaggaga gtcgtgaagc agttgagaaa 540
gaatttgagc ctctgctgaa ttggatgaaa gataaagccc ttaaggacaa gattgaaaag 600
gctgtgggtgt ctccagcgctt gacagaatct ccgtgtgctt tgggtggccag ccagtacgga 660
tgggtctggca acatggagag aatcatgaaa gcacaagcgt accaaacggg caaggacatc 720
tctacaaaatt actatgagag tcagaagaaa acatttgaaa ttaatcccag acaccgctg 780
atcagagaca tgcttcgacg aattaaggaa gatgaagatg ataaaacagt tttggatctt 840
gctgtgggtt tgtttgaaac agcaacgctt cggtcagggt atcttttacc agacactaaa 900
gcatatggag atagaataga aagaatgctt cgcctcagtt tgaacattga ccctgatgca 960
aaggtggaag aagagcccga agaagaacct gaagagacag cagaagacac aacagaagac 1020
acagagcaag acgaagatga agaaatggat gtgggaacag atgaagaaga agaaacagca 1080
aaggaatcta cagctgaaaa agatgaattg taaattatac tctcaccatt tggatcctgt 1140
gtggagaggg aatgtgaaat ttacatcatt tctttttggg agagacttgt tttggatgcc 1200
ccctaattccc cttctccctt gcactgtaaa atgtgggatt atgggtcaca ggaaaaagt 1260
ggttttttag ttgaattttt ttttaacattc ctcatgaatg taaatttgta ctatttaact 1320
gactattctt gatgtaaaat cttgtcatgt gtataaaaaa aaaaaagatc ccaaataaaa 1380
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aananaa 1437

<210> 829
<211> 973
<212> DNA
<213> Homo sapiens

<400> 829
gtgaaacaac aacaacaaca acaaaatgta gtcttaggaa gcagcaagtt cactgacttg 60
ggatctttat gacagttttt ttgttgccat tgatattgtt ttgtttattt tttgttttca 120

555

```

gatgagaaag ttttctacat gttatctttt ttctaggagc tcaaagtgtg catcattcct 180
ttattatagc taggtttact gactcatata ctaaggaagt agctaaaatt ataaaaataa 240
tttgttttta aaaccatatt taactaaggg aactaagtaa gttccaatga gcagtgggtct 300
catgcraggt attttcaata ttttaaaatt tacagatgaa tatttaaata tattataaaa 360
gttttaatat gctatctcta agaaaataca tttcttaaag ggaaatgaaa ttcacttgac 420
tttaataaaa acaaatgaac tcatttcatg tttttaacta ttatctaact cttccttact 480
ttatgrtgct ggcaagctgt tgagagcctt gacatctcca tctgcagaaa aatcacagtc 540
ttagaaatcc tattaatcgt gtgagggtacc tgggtcatag tagcagcttc atgcagtgtt 600
aaaattatat gatgattata tgcagtaaca gatgaagaaa aaaagaaaga aagcaggaga 660
aatgcaccac ctcattcatt gtaaattgcag tatagttgat tttttaattt gttttatgtc 720
ctctagtgat ctaagcatga agcttgaatt attataataa agaaaataaa tgcaatgcag 780
ttggggatgg caaatgttaa tgcttatctg tatcaaagac taacactgtc ttcaggatta 840
tccttggtgg attatccttg gcagacactt aatgagcaga gagaagctac aatggtgaag 900
gacaaaagtc ctttgtcatc ttattatcga aataatgttt aatacaaata aactttttta 960
attaaaaaaaa aaa 973

```

<210> 830

<211> 814

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (619)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (789)

<223> n equals a,t,g, or c

<400> 830

```

gccattcttg aggaaatata gagatgacat gttttcacc ccaactatctg gtgctattga 60
atgactaatt cagtcacctaa agttctgtga aaacacaaaa gtctaataatg ttgagtgagt 120
aaaaggtaat ggtgcatttg aacaagtaaa tgctgtcgtg gtcagcaaga tccgkgattt 180
gaacatgtga tgactggaaa aagggttggg ttatttggaa ctctggctaa aacttctttc 240
gggtgacatg tgatcgttta aatggcatta agtgaataaa gcacacagac agtgctactc 300
ttgaccacta ttttaccatt tctttgcaaa cagtgttcac attttcatat tttttcccta 360
actaaaccac caaagaaaga cattttgtat gtatatacag tgtgtgtgta taaaaatca 420
tgatatagta gaatgcaact actttctttt tctaccaaac gaaagggtttt atttgctgtg 480
aaataaacca gaagttaaaa aaacctgtga gtgattaagc atacttaacc actccttatt 540
tgtagattca ctttcaacct taaaaattaa taccagtttg cataaaccaa tatctgaaaa 600
gaacaggaaa tgttaatgnc aagcaacagc tattaatact gatgtgaatg gatgcatttg 660
ttttgcagtg gtgactggcc taggcagggt tgggtatctgt gaaagaattg attcattttc 720
aaaattattc cataaagtta aaaagttaca ctttaagggc aacagggtcat acagttcttt 780
aaaatctgna tccaactgta gctttattta aaag 814

```

<210> 831

<211> 611

<212> DNA

<213> Homo sapiens

556

<220>

<221> misc feature

<222> (181)

<223> n equals a,t,g, or c

<400> 831

```
gcggaaatat tccatcagct tttcaaagcg gtgctgctcc ccacacacct gggtaagggg 60
aatggctctc actgaggccc agtgacacac gtcctaagct accttctggc tgccacacct 120
gtgcttcaac aggtctctct ccagttaatt ctaagttgag ccacgtcact cttctgctca 180
naacctccac tccctctcaa tctccactc tccctcactt tttccactct ggccacactg 240
gcatectggc acattccmac ccmagggcct ttgcacttac tgttccaact ccctggagtg 300
ccctcactcc cacaccaagt cccttgcttc cttcacagct ttgctgaaat ctcacttgct 360
cagtggaggc ttccctgacc accctgcaac caattccccc tccctctgca acattgctgg 420
cttttttctc ayagcattta tcatttecta acatactatg taatttgctt gtttattata 480
tcgtttctgt ctttccctat atggtttctt ttgttcaact atgtgcccaa gtgccctgtt 540
cctgacacat agtaggcact caataaatat tcattaaagg aatgaatgaa tgaaaaaaaa 600
aaaaaaaaaa a 611
```

<210> 832

<211> 588

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<400> 832

```
ccaatttnca caggaaacag ctatgaccat gattacgcca agctcgaaat taaccctcac 60
taaaggggaa aaaagctgga gctccaccgc ggtggcggcc gctctagaac tagtggatcc 120
cccgggctgc aggaattcct tttttttttt tttctgagac aggggtctcac tctgttgccc 180
tggctggagt gcagtgggtc aatctcagct cactgcagcc ttgagtcagg ctcagggtgat 240
tctctcacct cagcctccca agtagctggg accacaggcc cacaccacca agcccagcta 300
attttttgta tttttaagta gagacggggt tcatcatggt atgcaggctg ctctcaaact 360
cttgagctca agcgatctgc tggcctcagc ctcccaaagt tgggattata ggcgtagact 420
accagatttt ttcttattaa tctaataatt ctttgtagat tcttgatatt atccataayg 480
tgtattgcaa atatcttctc taactctggc tttgactggg tatgggtgtc tttttttttg 540
gggggggggt tttgaaacag ggcttgctct gtaccacagc ggagtgtg 588
```

<210> 833

<211> 436

<212> DNA

<213> Homo sapiens

<400> 833

```
gtgagaagcc attctcttct tttactagta tgaagtcac agacgtcttc tccagcaaag 60
gaatgacacg ctgggggggaa tttgacgatc tctatcgtag tagtgagctg gacaggaccc 120
agatttcctat gtctgaaaaa aggaattccc aggaagacta tttatcttat cacagcaaca 180
ccctgaagcc acatgcaaag gatgaaccag actccccagt gctctataga accatgagtg 240
```

557

```

aagcagctct ggtgagaaaa aggatgaagc ctctgatgat ggacagaama gaaagacaga 300
aaaatagagc ctctattaat ggacacttct ataacatga aacatcaatt ttcattccag 360
cctttgaatc asaaactaag gtcagagtam acagtamcat gagaactgaa gaagtaataa 420
agcaacttct ccaaaa 436

```

<210> 834

<211> 1090

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (184)

<223> n equals a,t,g, or c

<400> 834

```

aattcggcac gagcctgcct tggcctttca aagtgcctggg attacaggca tgagccaccg 60
cacctggnc cttctaactgt ttttcatcat agtcccaaaa accaatactt tacaagtggg 120
tttggaagg caccactttt gtggcatgtt ctgggtggga gagggagtca cagttcctac 180
tcnccccacc agctatgctt ctgctctgag aaggtgggta ttatacaaa catggacata 240
ctcactccca agggctgatg agatgctgaa ttttctttgg gggcattcat taattgtccc 300
agctgcagcg actggagcaa gtctggaagc tgcctgtgct aagaccaccc agctgtccct 360
gggtttctcat cctagggcct tctttgcttc caggtcaggg gacctgcttc aatgagaaag 420
caactgaatt gaggctagga gaggtaggga gagctgagtt ctgacttcac ctgtgcagaa 480
ctctctgccc ccatgttacc tggactggaa cagactgtga atatagcaga aggttccaag 540
aactctggtg tctgacctag aagaggcaca gtctctctta ctggaaagaa aacgatgtag 600
ccgattgcac aaggggtgcca agggaagacc caggatggcc catcaaagga acctggggga 660
ggatgcagga ggctgaaggg atgcacctgg catttctctc actgtgctct taccgcatca 720
gcaacccccca acttttgggc ctactctgcc ccccatgcgt gaataccctg cttggatgct 780
gtgcttttcc ggtttgtctc taagccccct tctccagggc atgttgggtt ccctggcctc 840
tcagtgtcct aactggagcc cagagtgcct tgttctgagc caggagacgg ctgagcactg 900
gccctccaca cctaagcgtc ctttacatta acttattggt cttgtataac acctgggtgc 960
attgccaaag ggctgtgtcc tcagctacag agctggaatt gtgtggggtt tagtgctaaa 1020
tacttcaata aagtctgttt tttgtgattg gctgaaaaaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaaaaaaa 1090

```

<210> 835

<211> 960

<212> DNA

<213> Homo sapiens

<400> 835

```

gggcactttt ggggctgggtg aattcaagac gctctggctg aagattcaga agtatctggg 60
aactctcttt tccttctggg catcctctcc tctgttctaa tcctccctta cactcattcc 120
tgggtccattg tattctgacc acatccttaw tcatgggtcaa aactattgag tcctgggcac 180
attggtcatg aaggaacaag aaggcaatga gagactctca tgccaaccac tgccctgaaa 240

```

558

```

gccctgctgt tcagacagca aaggggccag cactggccaa gctcttatgc ttgctctgaa 300
accttcttgg gaggagtcaa taggggtctcc ttttgaaagt gtccctggcc ttttgagaaa 360
gcagtgtggt ggagggagat ggttctggca ggggcgtgaa tggttgtttt ctacttggga 420
tttcttttct gctttaggag atctattggg aaactgatta taaccactcg ggcaccatcg 480
atgccacaga gatgaggaca gccctcagga aggcaggttt caccctcaac agccagggtgc 540
agcagaccat tgccctgcgg tatgcgtgca gcaagctygg catcaacttt gacagcttcg 600
tggcttgat gatccgcctg gagaccctct tcaaactatt cagccttctg gacgaagaca 660
aggatggcat ggttcagctc tctctggccg agtggtgtgt ctgcgtgttg gtctgacctg 720
gggtttcggg catcagtgc actccctgcc cactgcttg cttcttgta ccccttctct 780
acaattttgt gaacatttat gctccagtgg cattcactgg ttgttcatac ctttcttgcc 840
ctgggtctat ttcagcagca ctgagctatg agctatgtaa gccgaccggg tgggcccagt 900
ggagggaaaag caatcaatta aagttgtgag ccagaawaaa aaaaaaaaaa aaaaaaaaaa 960

```

<210> 836

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (443)

<223> n equals a,t,g, or c

<400> 836

```

ggtgagccct gccacagacc tgtgtgacag cagagctggt tggctgctgt atgagtgtca 60
ccggccctgc atttttttct tttttaataa agacagagtc ttgctgtgtt acccaggctg 120
gcctccagtt cctgggggct caagtgatec tcacacctcg gcctcctgag tggttcagac 180
tgcaggtaga caccaacacg cctggctaata tttaaatttt ttgtaaagtg ggggtctcac 240
tgtgtcactc aggtgtgtct caaactcctg ggctcaaaca atccaccgcg ctcggccagc 300
actttgagag gccgacatgg gtggatcacg aggttaagag attgagacca tcctggccaa 360
catggtaaaa ccctgtctct actaaaaata ccaaatttag ctggacgtgg tgggtgggcg 420
ctgtagtccc agctactcag ganggtgagg                                     450

```

<210> 837

<211> 1144

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1123)

<223> n equals a,t,g, or c

<400> 837

```

cgccacgcg tccgagaaaa tctgcctctg tggcaacata tttccttcca ggcgttacct 60
cctgagctta gggaacaaac tgtccatgag gtcaccacag taggcaactgc agaattgcagg 120
aatggctga gcaggagtcg tactttggga gaactagaat ctctgaacac agtactgtct 180
gctttgcttg cagtatgtaa ttctgctggg gaagcttttg atacaggaaa acaaactgca 240
attatcgaag ttgtgagtca gctttgggct tttttaaaaca ttaaacagggt agcagatcaa 300
ccttatgttc aacagacatt cagcctttta cttccactgt tgggattttt cattcaaact 360
ctagatccta aactgatact tcaggcagta actttgcaga cctcgctact taaatttagag 420

```

559

```

cttccctgact atgttcgttt ggcaatggtg gattttgtat cttcttttagg aaaacttttt 480
atacctgaag ctatccagga cagaattctg cccaacctgt cctgtatggt tgccttactg 540
ctagctgaca ggagttggct gctagaacaa cataccttgg aggcgtttac tcagttcgct 600
gagggaacaa atcatgaaga gatagttcca cagtgtctca gttctgaaga aactaagaac 660
aaagttgtat cttttctgga gaagactggg tttgtagatg aaactgaagc tgccaaagtg 720
gaacgtgtga aacaggaaaa aggtattttc tgggaacctt ttgctaagt gactgtagaa 780
gaagcaaaaga ggtcatcttt acagccttat gcaaaaagag ctcgtcagga gttcccctgg 840
gaagaagagt acaggtcagc gctgcataca atagcagggg ctttggaagc aactgagtca 900
ctactccaaa agggtcctgc tccagcctgg ctttcaatgg aaatggaggc gctccaagaa 960
aggatggata agctaaaacg ttacatacat actctagggg gaaacttata actaggcaga 1020
actgggtttg atgctttgtc aactgaaaat acttatgtct gtacattttc taacagatat 1080
aaaacaaatt ttgtaaagtt raaaaaaaaa aaaaaaaaaa ttntgcgggt ccgcaaggga 1140
attc 1144

```

```

<210> 838
<211> 274
<212> DNA
<213> Homo sapiens

```

```

<400> 838
gggagcagca gctgaggcgg ggtggacgtg tgggggggtca accttatggt tggagcactc 60
aaagaccagc catccctatc tctgtgctcc ttagcatttc ctcagaggat ctaagcgaaa 120
acagagcggg catgagaagt cagacctagg actcccaggc tgtttaccag aaatgcattt 180
catttagaag agcctgtctt agctttgttt gggtaaaaaa aaaaaaaaaa aaaaaaaaaa 240
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaa 274

```

```

<210> 839
<211> 452
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (448)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (449)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (450)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (452)
<223> n equals a,t,g, or c

```

560

<400> 839

```
ggaaaaaaac agaaagggac aggtgggtga ggtacaagat gaagcaccac ttttgtgaaa 60
gtggttgaag ttgacaagga catgagggag gctgtgaaga tcaatgtcaa gtgtacgata 120
accagggtct ctcttgaaaa atccaagggg attggccggg catggtgggt caagcctgta 180
atcccagtac tttgggagggc caaggagggc ggataacctg aggttaggag ttcgagacca 240
gcctggccaa catggtgaaa ccccatctct actaaaaatg caaaaattag ccatgtgtgg 300
tgctatgcgc ctgtagttcc agctactctg gaggtcgagg caggagaatc gcttgaaccc 360
aggagggcga ggttgtggtg agccaagatt gcaccactgc actccaacct ggcaacagag 420
caagactctg tctcaaaaaa aaaaaaannn an 452
```

<210> 840

<211> 489

<212> DNA

<213> Homo sapiens

<400> 840

```
aaattatata ttgataagta aatggcttgt tgcataatcc aacttttagaa tttattaact 60
ctaaagtttt tattgggttaa agccaaataa aataatataa gtcataattt ttttagattt 120
ttcatgtcct aaaatgaaca tagttgtata ctttatctca ctaggataat ttttatcttt 180
gcctatatgt gctgctggac cttgtaaaaa tatgtatact ttctagattt gtggtagaaa 240
tttagctata gaatcattta atttgcaaac tggaatgggc attagagaat catacagttt 300
ttcttttctca ttttaccggg aaaatcactg atgtctcaat ttgtgactaa tttcctaaag 360
gttgcaaaagc tgrgtagata gagctagaac taaatctaga tcttttgtct tcttggtaac 420
tgataatgac atattttattc cattgattct atgacatgga cgaataaaaag ctgcttaagg 480
ccaggcgag 489
```

<210> 841

<211> 464

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (419)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (455)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (462)

<223> n equals a,t,g, or c

561

<400> 841

```

gacttcactc aaaaagtgcga gaattcacat tcttttcagg aacacatgga acatttatat 60
gtggtggggac ataaaactaa tcttaataaa tctgaaacta ttttgatcac ataaagttct 120
ttcattataa agaaattcaa ttgtaaaccc aaaccagaag atatatagaa acaccataa 180
tatttgga aa tgaaacagca cacttctaaa tatcccatga atcaaagaaa aacaatcaga 240
agggaaacta ggaagatttt gaaatgaatg aaaatcaaaa tacaacacat caacatttat 300
gagatgcagc taaagcagta ctgagatgaa attttatagc actgagcagc tatattatta 360
aagaagacaa gcctcaatga tctttctggc tcaagaaaag ggaaaaagaa gggcaaacna 420
aactnaaggt aagcagaaga agaaagaaaa agtcngaaag antt 464

```

<210> 842

<211> 412

<212> DNA

<213> Homo sapiens

<400> 842

```

cctggcccggt gtcttcatcg gcatcaacga cctggagaag gagggcgccct tcgtgtactc 60
tgaccactcc cccatgcgga ccttcaacaa gtggcgccagg ktgagcccaa caatgcctac 120
gacgaggagg actgctgtga gatggtggcc tcgggcggct ggaacgacgt ggccctgccac 180
accaccatgt acttcatgtg tgagtgtgac aaggagaaca tgtgagcctc aggctggggc 240
tgcccatkkg gggccccaca tgttccctgc cagggttggg caggagacaga gccagacca 300
ttgtgccagc caggagggt gtccctttgt taagggtgga ggctcactta gtagagggtc 360
gtgttctaaa ctgagaaatg gcctatgctt aaggaggaaa ttgaaagttt ct 412

```

<210> 843

<211> 565

<212> DNA

<213> Homo sapiens

<400> 843

```

gaaaaaaaaat gctaattgtga gaatataaat tgtgggaaat gagtgagggc aagggtggtac 60
ttcctccttc tgagctcttc acacgtaatg caaaaaccg gtcttaattg attttgtttt 120
ttttctgagt atgcatatat gtggttgaat gaaccaatgt gtgattgtat cttttccatt 180
atgtgactgt ttgacctgca tattaatttc aagatagcag tcaattcgat aaggcatttt 240
catagaggaa agtttacaga aacagtttat rtggttggat caccaaatta tcttaggtac 300
taaggcctca aaaataagaa aaactttatt atttctctc agtagagttt ggacatacat 360
aaggagagaa ggtacagtga tgaaggagac cataattctg tagtgttgat gatcctggat 420
tataatcttt ttctctttat ctttcatagt ttttttaaaa acatggactg tatcttatct 480
accactatat cccaaatacc taagatagtg cttacgttca gtgactatta aataaataaa 540
tggatgaatt aaaaagtaaa aaaaa 565

```

<210> 844

<211> 571

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (254)

<223> n equals a,t,g, or c

562

<220>
 <221> misc feature
 <222> (491)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (501)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (534)
 <223> n equals a,t,g, or c

<400> 844
 agcagaacaa cacagtcctg gtggaaggct gcttctgtcc tgagggcacc atgaactacg 60
 ctccctggctt tgatgtctgc gtgaagacct gcggctgkt gggacctgac aatgtgcca 120
 gagagtttgg ggagcacttc gagttcgact gcaagaactg tgtctgcctg gaggggtgga 180
 gtggcatcat ctgccaaccc aagaggtgca gccagaagcc cgttaccac tgcgtggaag 240
 acggcaccta cctngccacg gaggtcaacc ctgccgacac ctgctgcaac wttaccgtyt 300
 gcaagtgcc aacaccagcct gtgcaaagag aagccctccg tgtgcccgtt ggggaattcga 360
 agtggaagag caagatgggtg cctggtaagt gctgtccytt ctactgggtg gaagtccaag 420
 ggggtgtgtg ttcacgggga atgctgagta ccagcccgtt tcttcagtt tattcctcca 480
 agtggccagg ncttgctgtg nccaaggagc aaggtgggac aacaacaacc ctgnttcaac 540
 gttcattggc ctggcaaccc acgggggggg g 571

<210> 845
 <211> 678
 <212> DNA
 <213> Homo sapiens

<400> 845
 gggaagcttc cagcccaaca ttttctaaag aaccaatgaa agtgcaagac agtgtattga 60
 tcaaagcaga taacactata gaaggtgaca ataatgagca aaattatata aaggatgtga 120
 aactagagga ccattcttta gctgggtcat gcttaaagca gagtagtaaa aacattttta 180
 ctgaaagagc tgaagatcaa attaaaataa gtacaaggaa gcagaagtct gtaaaagaga 240
 tctcttcata tacaccaaaag gactgtactt caagaaatgg tccagaaagg ggatgtgaca 300
 gaggaataat agtatcaaca cgtttggtga ctgattctag cactgatgct ttggaaaaag 360
 tgtccacatc gaatgaagat ttctctttta aggatgatgc tcttgctaaa acctcaaac 420
 gaaaaactaa ggtacagaaa gatgaaatct gtgcaaagtt atcacatgta ataaaraagc 480
 aacacaggaa gagtactttg gtcgataata ctatcaattt agatgaaaat ttgactgtat 540
 ctaacattga gagtttctat tcaaggaaag atacaggagt tcagaaagga gatggtttca 600
 tacacaatct ttcttttagac cctagtgggtg ttctggatga taagaatgga gaacaaaaat 660
 ctcaaaaacaa tgtattgc 678

<210> 846
 <211> 352
 <212> DNA
 <213> Homo sapiens

563

<220>
 <221> misc feature
 <222> (211)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (225)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (314)
 <223> n equals a,t,g, or c

<400> 846
 ggaaagattt aaggaaagaa aactttttcga tttcctttga aaaatagaac acaaaactgg 60
 cttgtaaatg tttttagaat gatgaataag tcattaatta attcagtgc gtatgttttc 120
 taggatccct ctggctgttg tgctgagaac agaaggggtc aaggagtggt gggagtaaaa 180
 atggaagcag ggtgcgcag cggagtcaga naaatgtgtg tttntaggt ggacacaagg 240
 aaggaagagt gattgatttt tgagaagcta aaattgtgtg gtaagtggat agtagcaaat 300
 atcccagttt gctncatgaa gcaatacata tgttgaaacg gaaacgttgc ta 352

<210> 847
 <211> 890
 <212> DNA
 <213> Homo sapiens

<400> 847
 ctcttttgca gcttgtgatt tcttccagct tgggaggggc tgctggaagt ggcatttcgt 60
 tcagagctga ctttcagtcg acccaaactg gatgacgtgc caatgtccat ttgccttatg 120
 ctttgtggag ctgattaggtc tgggatttga ggtgataatc cagtaagtct ttcctcgttc 180
 ctacttgtgg aggatcagta gctgttatga tgccagacca tttggagaag tatcagaggc 240
 ctgaccggac acataatacg acaaccacat ttttctcat catccatgag gaaatggatg 300
 atttctcttt tccatatgtc actgggggaa aggctgcctg tacctctcaa gctttgcatt 360
 ttactggaaa ctgagggcgtc aagatggctg tggcagctag caaaagcaaa gatgctttgt 420
 gcatagcctt gtgaaaaagt atctttctat gcaataagat gaattttcct ccagaatat 480
 ttagaaatgt agaagggata acagttcaca gccaggtaaa atttaactgg tggcttaatg 540
 actctgcacc tttttctcag gaattctgcc taagttgtct gccttttcta ccacaaaaaa 600
 gacttttagt tttctatgct ttctcctgaa ttttggtagg gtaaggtatt tctatgtcaa 660
 agcacagcct tgatgatctc agggaaaaat tttaatcact gtgtataatg atactgaacc 720
 ttgattaata acagaaattc aggatgtaaa gccacagaat gggatttatt aatgtgggat 780
 acctcagact gtttgttttc tttctgggaa gaaaagtgtg ttctataatg aataaatata 840
 gagtggtttt taaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 890

<210> 848
 <211> 591
 <212> DNA
 <213> Homo sapiens

<220>

564

<221> misc feature
<222> (132)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (542)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (550)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (579)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (590)
<223> n equals a,t,g, or c

<400> 848
cgccgtgtcc aacaggagat cgacgacgtg atagggcagg tgcggcgacc agagatgggt 60
gaccaggctc acatgcccta caccactgcc gtgattcatg aggtgcageg ctttggggac 120
atcgccccct gnggtgtgac ccataatgaca tcccgtagaca tcgaagtaca gggcttccgc 180
atccctaagg gaacgacact catcaccaac ctgtcatcgg tgcgaagga tgaggccgctc 240
tgggagaagc ctttccgctt ccaccccgaa cacttcctgg atgccaggg ccactttgtg 300
aagccggagg ctttcctgcc tttctcagca ggccgccgtg catgcctcgg ggagccccctg 360
gccccgatgg agctcttctt cttcttcacc tccctgctgc agcacttcag cttctcgggtg 420
cccactggac agccccggcc cagccaccat ggtgtctttg ctttcctggg gagcccatcc 480
ccctatgagc tttgtgtgtg gccccgtaga atgggggtacc tagttcccag cctgctccct 540
anccagaggn tctaaatgta caataaagca atgtgggang ttcaaaaaan a 591

<210> 849
<211> 448
<212> DNA
<213> Homo sapiens

<400> 849
gcgcagggtct ctttcagtc cttgatggcg agcgcagccc ctggggaggcc acacttagtt 60
ctttattgtg aatctctcgc tactcaagtt cgttcgggac cagggcctcg gatggcctcg 120
gttggccgta agtacgcgaa agaagagggtg aatccaatcg ctggcctaga ggatagtgat 180
cagacaaccc gaggattact aaacaagggg cggcggtgtc cctgtctcat ggggttggcg 240
tggggcgggg ggtaggcagc aagatcctcc aggtcctcgg atgcaaagag tgagaaagaa 300
agcgcagcct ctggcagcct gcttataaat gcagcctttc ggaagatgaa acttgcagtc 360
ttaggttgtc ctcccttata tccatgttcc aatcctctgg gctttcctcg aaatgaataa 420
aattgtggaa atgaaaaaaaa aaaaaaaaaa 448

565

<210> 850
 <211> 536
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (496)
 <223> n equals a,t,g, or c

<400> 850
 gcggcgccct actactacta aattcgcgkc cgctcgwcaa atggctggta agcaggccgt 60
 ttcagsatca ggcaagtggc tggatggat tgcgaaatgg tattacaatg ctgcaggatt 120
 caataaactg gggttaatgc gagatgatac aatatacgag gatgaagatg taaaagaagc 180
 cataagaaga cttcctgaga acctttataa tgacaggatg ttctgcatta agagggcact 240
 ggacctgaac ttgaagcatc agatcttgcc taaagagcag tggaccaa atgaagagga 300
 aaatttctac cttgaaccgt atctgaaaga ggttattcgg gaaagaaaag aaagagaaga 360
 atgggcaaag aagtaatcat gtagttgaag tctgtggatg cagctgttat gaagatgggt 420
 aaacttgaaa caaacaattt taagaattat ttgggtctgaa gatgtyttac tttaaataaa 480
 tgtctattgt aawggnaaaa aaaaaaaggg sggccgcycy araggatcca agctta 536

<210> 851
 <211> 383
 <212> DNA
 <213> Homo sapiens

<400> 851
 acttataatc caaaagacca ccaggatgac taaatagtag aaagaagagc tttattgggtg 60
 atatcagttg caagctggaa gagaaagtct ccagcatgga ccaaagatgc tctctcttca 120
 aacaggggaa ggacagggttg ggtctcattc ctctgagagt ctgtattaca caatagagtc 180
 atacgtattc agcagggttg gggtagaagc tatacatatt tatgaggaga gccaaagcaca 240
 ggagcaatga ataaacaaac atgtaataata catcccatat tcactttggg gcaaaagggtg 300
 aactatagga cacaagaca gtgtgtgtgc agcctctata agctggctga aactggctta 360
 aggtctgcaa ttgctcatca gaa 383

<210> 852
 <211> 644
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (280)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (527)
 <223> n equals a,t,g, or c

<220>

566

<221> misc feature

<222> (642)

<223> n equals a,t,g, or c

<400> 852

```

gctttacctg agctttgacc tgcgtagcaa tatgttgatt ttttaaggat gttttgtaaa 60
ttaaaaaaat gctattataa aataatgact ttgaagagat ggtaatatatt ctattgaaca 120
tattaatgga ccaactgctat catgtagttt ttaatttaga aggctcaatt ttagttttta 180
ttagaaaaga tattgttttag tatcaaatga ctattaaaag tatatagtgc aataaaaaga 240
aagacgtgaa ggaatgtgga amcattaaaa caaaatcgan cctccttaag tagtagttat 300
atcagatgta attaaaagat gggatgtaat ttgactatca aataacttgaa ccaatgcttt 360
tatttgtaat atatatatgt gtatatatgt ttttgattac caatattaaa cmcaaagtga 420
aacmctattg atttgaagca ctggccatt taaaaataat ttaaattgggt accccagaac 480
cttgctgtaa ttttattggg gatTTTTtga caatatatag ccctagnntc gtctccaacg 540
ttctcacctt taagaaagca ttacatttc ctatcctctc ccaactggga gaatatgcaa 600
atattataaa ataaaattct ctttttagaaa ttaacaaaaa gnaa 644

```

<210> 853

<211> 527

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (440)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (449)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (521)

<223> n equals a,t,g, or c

<400> 853

```

tttttttttt tttttttttt tttttttttt tttttttttt taacaaatgt ycagttttwt 60
tcattacaaa tattaacatc atttttcttt tatttatcct ttatgcatca ttttatacat 120
tcacacacac aaagaacatt aaaaatatat ccaattattc aattttgggt gaattttcat 180
taaaataagt gttaaaaata tttatttggt ttctgttttg agaaggcttt tattgttgta 240
ctccrgagtg ttattttctgg agacaaagtt gcctgtgctt taatagggag attcctggga 300
gaatctaaac cataagcaac aaaattttta gttaataaat tcaagacaaa gcagaaagta 360
tagatttgct ttcagcattc ccgagggtgt tagattttta ttagtcacct aattaamata 420
ttgttccaat aattgggtcn ttctctcng aaaataagca gaaactcata cttacaccaa 480
aacacttcca taattttctt acacctaaag gtttatcctc nggaatg 527

```

<210> 854

<211> 513

<212> DNA

567

<213> Homo sapiens

<400> 854

```

aaaaaaaaa acaatgaaag tagcctccac ttacaaacta attactcttt cttgaaaata 60
ttacactttt tttcttctat atctctactc ctagctctca acacctttct taagcccaca 120
tcataacctg tcttgcataa ctttgtgagt gcccaacgtt tcaactgtaca agattgtaga 180
gctgcatgct tcttaagaat aaatccacac tttaggtacc agtaaatcca tgcaatgcct 240
cagacgttat aaccaaataa tgcctggaaa atcgacatga atttatgtga agcataagcc 300
tttaattttt ttaaagaaaa gtagattgct gtttttccac atcatttcag agccgttctc 360
tagttttgca tgccctttac tgcagaacca tacagatttt gttctccatt tcatacatca 420
tttgttgaaa tgccctttta aatgtaacgg aatatagagc tttatgggaa aaaatgctgt 480
agaaaaataa ttatcttctc tctttgtatt ggg 513

```

<210> 855

<211> 434

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (430)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (432)

<223> n equals a,t,g, or c

<400> 855

```

gtcttcayct ccgtatctgg ccttatgttt ttatgcattt caaggtagca gacatcagta 60
cattttacac ctagattcgt ttacatgcat agcattagag ttcaatagtt gcttactgta 120
tttaggtaaa cttttcatac agtgaaacgc aaaatctcaa atgtaccttt caatgaattt 180
tgatgcatgt acacaccttt ataactcaaa tcaactatsca gatgtagaac atgaccatca 240
caccagaggc cctcctgccc cttctcagtt gattctaata tccactcccc aaagcaacca 300
cagttctgat ttttttcacc atagattgggt ttgactaact ttttgaactt catataaatg 360
gaatcaaaca gtatgtactg cttcacataa ggcttctctc actcagcata atgtttttga 420
gatccgttgn gntg 434

```

<210> 856

<211> 1432

<212> DNA

<213> Homo sapiens

<400> 856

```

gcaatgctat cggtttttgac aggaagcacg atggtaagaa taccactaac gaaaaccttt 60
gtgggtgtctc aatgacaaat atgcagatgc caccctcctt tgtctaattg acggtgcttt 120
agggcaacta tttaataata agcaactcag aacttggtttc aggaagtgtt gctctttcgc 180
cttacatgcc aagggttctag ggaaaaagct gaccatatgt aaaaacattg atgctcaagc 240
acataaagaa ttcattcttt aaacatagag tacatagggt caagtctctg cacaataatt 300
gagatgtgtt atagggaaaag tgagccagtg ctattgtyca cttagtcttg gtgaatgtgc 360
agtaggctca cccctaagga atctcatggt gcctgcagta aaaataaaaa tggactgcta 420

```

568

```

caatgacata ctgagagagt tttaaatcat gctttacaaa ctgacattct gagctctgag 480
acagcagaaa atgtatcacc agagcaaggg aggaggcaaa tgttctgaac aataattgaa 540
atggttgtga ttttatttgg agttggcaca gatccaagtg accaaaggag ttcaaggccc 600
aaaatttagt tatgctggat taattctgag agtaacaagc acatagatta taatctaaga 660
aaaccctttg tagctatgca tgtcgggaga gcatctaaca ctaatggtga tgtttcccat 720
gcagagactc agattacagt gactcttcca gtgaagacag atgaaagcca ttgggcattg 780
tacctttgtt aatcaagcta aactaaccaa ggatataggg gtgtgtatgt gtctgtgtgt 840
gtgtgtttgt gtgtgtgtac acatacatct ataggtatga atgagacaaa aagctgctga 900
cttacagctt aggaaatgca aagtcaagtt tttcttttca ccctgaggca ctcagtgcac 960
aaaggttcaa gttttaaaac taagaatgtt tccaaaagac cagcaatgtt aaaagagtat 1020
ttcgtgtata ctagacgtgc ctttaagcaa taaaaattcc aagagctgat cattattgtg 1080
cttccatttt agaaaagttt atttagtaac aaacttccca gtgtagggag gtttttccct 1140
gcccttttga acatgttagg ttattttctt cctatcctgg gcccttacca atgtgtaatg 1200
ctttcaaagt ttctatgaag cctgtgtgga ttctatttta gcttatttat atattctcat 1260
ttattttgaa ggatattata cttaatttgg ttcagagtag tcgccagggt ttgcacctga 1320
caatggcaca tattttttgt ataacttttt ctaggtcctt acccttttcc acactttaca 1380
tttgtacagt gaaagcaact gccagtggag gcctgaaatg tccaaaaaaa aa 1432

```

<210> 857

<211> 1140

<212> DNA

<213> Homo sapiens

<400> 857

```

ctttggggaa tctggagtac aggcctctcc gccctgacc accgaaacgt gcaggcattc 60
tactcacac tgggcagccc gctgtcgggt ctctctaggg ctatgaacca caaagcaggg 120
aagtgggcac gttctctcgg ggtggctcac agctttgaac ctgccaaagg acccctcgac 180
tggccacagc ccagcccagc ctgacgtgga tgtggctgcc caggaaaaga cttaactgtg 240
aaaaagtact gagaaccac ctgaccagg cttgcccac gcagaggcta gagaagaggc 300
tcctctctc agtgtttccc aaaggggagg ctcttgtggg ttcaaaatct ctggcaccat 360
cttgacctct tggctctctc tgcactttgc cccctgtctc aaaaatgtcc ctcatgtcca 420
tttctgttcc aggagactca tgaggactgt gtgacctgca caagcccaca cctgggcagg 480
ctgttggtgt ctctctctag gcagagcgtt cctggccaga gctctacctc tttgcctcct 600
ctgcagaggg ctctctctag gcagagcgtt cctggccaga gctctacctc tttgcctcct 600
gctgaccttc gacagcgtcc cgtrgcattt ctttcatgtc tgcataattgc atagccttgt 660
cctcctgtgt gcctgagctc ctcccttttc aataagatta ttagtcgtgc atgtctgtga 720
gctgccttcc atcaccattt ttcttgagta gggcttagtt ttattctgga aagacatctc 780
caaggtgagg tccaccccca cagcagacct caagtagaaa ttgcccatt tttaccagct 840
ggagggacac ccttgggttt ttgtacgaag ctatttaatg agcctgtgtc ttggggactc 900
agcaggctgg agcttggggc ctggtggacc atcacctggg gtctgtagggt ggacctgggtc 960
tcccacaggt gacatcaacc tgagggtggc gtctttagag acaggcacat gggcagctct 1020
gttcccttcg cctctactgc gaggcctggg gagatgttgt tttcatgctg ctccaccat 1080
cacactgggg tttctggatg ggaaataaaa aaataaaggc agttcatttc cccaaaaaaa 1140

```

<210> 858

<211> 532

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

569

<222> (365)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (372)

<223> n equals a,t,g, or c

<400> 858

```
ttggaacgcc cgcgtccgct tgtatcaaaa ggtccagacc taaggggaaa ttttatctct 60
ttctttcttt ctttcttttt ttttgacaca gagttttgct cttgttgccc aggctggagt 120
gcaatgacac gatctcgggt cactgcaacc tctgctcctt gggttcaagc gattctcctg 180
cctcagcctc ccgagtagct gggattacag gcgcccgcca tcacgcccggt gtaatttttt 240
tgtattgttg gtagagacgg tgattcacta tgttggccag gctagtcacg aactcctgac 300
ctcgtgatcc gccacctcg gcctccaaag tgctgggatt acaggtgtga accaccgtgc 360
ccggnctctt tntattaatt cctaaaatat taccttgagg ccaaattctg cgcttaagga 420
gaatgtgcac caagtgtctg ggtgggggct ggttataaac gagggcacia atcatgcttg 480
ttaataaatt gtgtggttca aatctgaaaa aaaaaaaaaa caaaagagtt tt 532
```

<210> 859

<211> 391

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (28)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (357)

<223> n equals a,t,g, or c

<400> 859

```
ggctttattc agaggtcaaa cttccttnaa naccagaaaa ttcatactga agagaagctc 60
tatgaatgta gtcagtatgg gagagathtt aactcaacta caaacgttaa aaataatcaa 120
agggttcacc aagaggggact ctccttgagt aaggccccca tacatttggg tgagaggtct 180
gtagataagg gggaacacac aggtaactta taaaataatt actttcccgcc ccagtgagtg 240
atgtttggaa atgcgtggaa ttaggattca tgtgtgttct aagatttggg catgtcagaa 300
ttttgtgagt catggatggg gctgcttttg cagcgggtgc cacctgccac tgtgcanccc 360
tactcggctc agcccttctc ctcagctgtg a 391
```

<210> 860

<211> 567

<212> DNA

570

<213> Homo sapiens

<220>

<221> misc feature

<222> (501)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (509)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (517)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (536)

<223> n equals a,t,g, or c

<400> 860

```

gtcctattcc tcgtggcagc ccaagccagc tgctggcccc gaggggagct taccttctca 60
aagaggccca ggagttttat agcctccttg aaacctttgt ttctatggac agaaagttca 120
tgatgcagat gctaagtttc tcttaacctg tttcttttta ttacctttg ccattctgga 180
tgaaaatgct gatcggttggg cactttctag caagaacggc ccttgtagct ttgaccata 240
aaacaagact gttatcattt atagacactt ccattaaaaa aagatttaag gaccgggcac 300
ggtggctcac gcccgtaatc ccagcacttt gggaggctga ggcgggtgga tcacctgagg 360
ttgggagttc gagaccagcc tgaccaacat ggagaaaccc cgtctctact aaaaaattag 420
ccaggcatgg tggcgcatgc ctgtaatccc agctactcaa gaagctgagg caggagaatc 480
acttgaaccc gggaggcgga ngttgcggng agctganatt gcaccaccga ctccancctg 540
ggcaacaaga gtgaaactcc gcttaaa 567

```

<210> 861

<211> 664

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<400> 861

```

accattatt gagaatacac ctgaggagaa gacctcaang atagwatggc tcatgcaatg 60
aatgaatacc cagactcctg tgcagtactg gtcagacgtc atggagtata tgtgtggggg 120
aaacatggga gaaggccaaa accatgtgtg agtgttatga ctatttattt gatattgccg 180
tatcaatgaa gaaagtagga cttgatcctt cacagctccc agttggagaa aatggaattg 240
tctaagccaa aagaaagtct aattatatac agagataaag ctaaactgaa ttattattta 300
aatgaaagct atttttttta atgaattgaa atttttcatg atgctactaa tttgccacta 360

```

571

```

aataactgcaa atgggtcaccc tgaatctctt ctgacattgg atggttatttg cttatattct 420
tataatttta aatgaggggca cagtgaaatg aaaattttat actctatggt tctgtttatt 480
tttaaactcct taacagcaaaa atatttgcct ttaatttctt ttttatatat actctcagag 540
aattcctctt aattttttaa gatgctggtg ataataaaat tcattagaaa atttcctcat 600
tgtggaatga gcattctctt gttttaatgt tgggtgtcaga aaataaatat gaaacattaa 660
gtcc 664

```

```

<210> 862
<211> 803
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (705)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (754)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (761)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (768)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (791)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (796)
<223> n equals a,t,g, or c

```

```

<400> 862
gctagaatct cagtcttatt ttaactactg attttgattt cccctaatat caatttttaa 60
aactgctaag ggaaaatgaa atactagaca tgagattttt tttctcttta ttttcaccca 120
acaaaccatt tggaatcagg tataaagggt atcaatcagg aaaaaacaga aggccaggag 180
acagagccca ataagggaga cccatcccag ggagcctggg agtcagcggg cctggatgca 240
cctcccagtt ctgcctctta ttagccagct gtgtgttaac ccctcatctg gtttgetcaa 300
ggtaacatga ccatcacaaa agcaacagaa acagattatt tactttcaga ttaacttggt 360
aaaatgacaa gttgaatatt gtcatttcag tattcaagtt gaatactatc aattcaatat 420
tcaagttgaa tattgkcaca agttgaaaga ttaacttggt aaaatgacag ttggttgaat 480

```

572

```

attggtatatt tctgcctcca attgttgcatt ttgttatattg caacttttaa tgcaccataa 540
aagcatttttt gttttgtttt aaaagcattt gttttaacgc accttacaag catttttggt 600
ttgttttaaaa agcgtttgtt tacaaatttg tgttttgtga cttctgggat gatttaacaa 660
cttttaaatgt accttaatac ttctctgtta gcttttgaga ttaanaacta ttctaattgca 720
atttagccat tatgaaaatt gatgatatta gtanaggtaa nagatatnga atagaagtta 780
aataagccaa ngactntaag aga 803

```

```

<210> 863
<211> 633
<212> DNA
<213> Homo sapiens

```

```

<400> 863
gactggctta gagacattgg gcagccaaca tctgtatttc ctcgtcagga agtgggcatg 60
gcgttggttg gagattaaac ggggtgtggg tgaagatcca gtgagcggtt ccagctgtgt 120
tgtagatgta aacctagcag ttaatgtggc aggctgtgtc tcatgcctgc tgagcaactg 180
ctggcttccc cgtcattctg tcctcttggg wttctctgaa ttypcattagg cctttattta 240
atccttgcac agtgcctccc tgccccaat gctcttcccc attggtcttt tttaacctgt 300
atcttaacta ttcttccttg gccgttagct ggactttaag ggacacttag cctcctgttg 360
aggctaagga ttactagagg aggagaactt cagagtagca aataatcaga cctccatcca 420
ggaagatgga cgtgggtggt ctgacatggg agcctagtat tttraaagct ccttaggtga 480
ttctaattgtc agcagggtctg aaaatcccc tccttaagca catgggact tagggggggg 540
tctaggttac attgtggcca agtctgcagt ttacagttct ggacaagaac cccaaccccc 600
aatattatgct atggtgatag ctgtgctctg gtt 633

```

```

<210> 864
<211> 507
<212> DNA
<213> Homo sapiens

```

```

<400> 864
tcaagggtca cacagggtta agttcagtaa gctgtgatcg tgacatgcct ccagcctggg 60
tgaccgagtg agactgtttc taaaaataaa aacaaaaaat aaatttcttc ttgagggtgg 120
gtggagggtg ggagcaagaa tttgacctgg ctctgatccc tgggtgtgtt tgtgggcctc 180
tttaacgttt gccactgagc cttaacctca ctgtacttca ctgtacttca cacgcattgg 240
tgtaaacatt ttaatcttag aagaccctga cccactgagg gtttgttgtg agaattgctg 300
aagccacgta gaagcacctt gaaatctgta aaaccacaag aaagtacttt ataaaaggta 360
tccttatattg aagtggataa atcttgtaac tcgaaaagtt gtgatttaga agacaggatt 420
gtttttgaac attaggaatt aaaggctata tctggtcctt aaaaaaaaaa aaaaaaaaaa 480
aaaaaaaaaa aaaaaaaaaa aaaaaaa 507

```

```

<210> 865
<211> 304
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (302)
<223> n equals a,t,g, or c

```

573

<400> 865

```

gcatatattg atacaaccat atggttttcc tgcttactta ataatttaca gaatatcacc 60
aattcctgtt aaactactct tatatttctg ggctaaccac tgcttgatcat agtgtgttta 120
ctcttttaaat tttcaacttg ctttgacttg ccgagatttt gtttaggatt attttaaatg 180
tattcaaaaag tatggttgcc ctttagatct ttgggggggtg ctgtcttgaa cagtttttagt 240
aatagagcaa cttttttattt tttaatagaa ctgctattta atttttattt ctttaattggc 300
angt 304

```

<210> 866

<211> 1711

<212> DNA

<213> Homo sapiens

<400> 866

```

acctctattc ttgatgacct ttttaaaagt catggaacag tcccacacaa ctgccaaaga 60
aagttctttc agggcccatg gaaaaagcaa aacagagacc aaaagatttc tgggacatct 120
tgaatgagca gaatgatgag agtcttagta aactcacaga cttggcagta atagagactc 180
tgtgtgaaaa agcacctcta gcagcacctt ttaaaaggag agaagagcca gcaacttctc 240
tttggaatc aaatgagaaa tttttatgga agaaatttag cccaagtgat acagatgaaa 300
acgcaaccaa tacacagagt accacataag catataaatg aattactgca ccagtaaact 360
gctgccatca ctgtttacgg cactggattc cacactgatt ctattatctt gaacacagtt 420
gttgacatat atttttatta aattattgct ttaggatttt ttgaagtcta aagtattgtc 480
atggatctgt ttttcttgat atttgatttg atctttcaag aatatgattg gatttatagt 540
ataaacctct gttatgaatt agaaaagatt ctaggtttgt taataggaga cctgggacat 600
ctttcttact atattacata atgatgtgac acttgccccg gtgagcattg tttcccagta 660
tgaaagatga agagtctgta ccgaatcagc atgagtgtcc ttccagttta aaaaagcttt 720
cktcgctctc ctaatggctc ataggctgaa tcatgtctgc ccctcaaate aggtgtatac 780
caatgtgttt tttactagca cttgggaaag ttattaagta ttttcttttt ccctgggcat 840
catgttctat tattatttta gaaaaaagtc ataattggta ctgaatatat ggtatatata 900
atattaaaaat ggtaattttg caacagctca aaattaaaag gttaatgtta tacactttac 960
tatatgagct gtgattacta ccattagcca cagataccag tgcctcaact ttttatgtac 1020
ctattgtgat ttaatgtaaa taaaggtttg tatagtactt ttgtagtctt taagtatgaa 1080
gaaatgggta aactttttat tttgtttagaa actgttatat tttgagtgtat atatttatgg 1140
tttatagcaa aatgaatgtg cttattgttg aatgcatgta tttagaagcc tttactcagc 1200
ccctgtgttc tgtgctagga gcttgagctc tacaggtaag gcagagctac cgggtgaatga 1260
aaggaaatca tgtcagtga aaatcatggt ggaaagcccc tggcatcaca tgtgcatgct 1320
gtaggcagga cctgagctgc ctccgctgca ggttcagatg caccgctgca gctgtccttc 1380
agttagttca cagggctgca agaggaggac acatccctcc agaaaacagc ctgagccggg 1440
aactggctgt gctaaagagc actgctatca agttgaggag agagggcttc cgtgtactca 1500
ggatgtagag tcattgctca gaagtgaaca aaaaatcaaa aacaaaagtc ttctcaaggg 1560
actgatcggc caagtatgct tttctttaga gcaatgtttt gccctagaga attgtaaaat 1620
ttatgtcatg actcagtaca tatgtgttcg tacatatatg attggaataa aatgtttatg 1680
aaataaaaaa attttttaaa aaaaaaaaaa a 1711

```

<210> 867

<211> 567

<212> DNA

<213> Homo sapiens

<400> 867

```

gcagcatcta taagctagga aggaggccct caccagactt ggaatctgct ggcttctctga 60

```

574

```

tcttggcctt tctagcctcc agaactgaac atggatgaag ctggaggcca ttatccttag 120
caaactaaca caagaacaga aaaccaaata ccgcatgttc ttccttataa gtgggagcta 180
catgatgaga tgagaacatt gcccaaagga accaagtga attaccaaatt tagaagtgat 240
aagagggttga ctctctccag aaatttattg taattagcaa gaggtaatgg tgtctaaata 300
agatgaaaga agatatttta aagatgataa taacaaaaac tactagaatg aggtgaagcc 360
agaaaggaag agtcataatc aaagaagaga gtgatcaaga atccaaaata gacagagaga 420
gcaggctctt agagaaatgg gagaactacc gcactgactc tgcacgtagg agacaggcag 480
gagaggagcg cccagccag agctcaacat gcgcaaacag gaagtgtgtc cgagggtttc 540
tggagctcac aggagccggg gaccaca 567

```

<210> 868

<211> 322

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (268)

<223> n equals a,t,g, or c

<400> 868

```

ggaaaaaaag aaaagaatag agctacagaa ggaagttcaa gcctaaatta atttgccact 60
gaaaaaatac attttgttat tttctctgtg tcaactgcat gattaaaacc ggctgttaag 120
tgagctctgg ggatgtgctc gtaaaagatt tatgagtaat attcaatgtg atattcaaag 180
tgagtcatga atatcaggat aattgctctc agtgctggct cttttactag gcaggagttt 240
gkcaactgcc ccataaatat ttgcctantc tcatgtaaaa aagacmattt catcttctgc 300
atttttatta cctagtataa tg 322

```

<210> 869

<211> 237

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (225)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (227)

<223> n equals a,t,g, or c

<400> 869

```

ccgggtcgac ccacgcgtcc gattgcagggt gtgaaccact gtgccagcc ctgattttta 60
tatgtcagaa ctaattcggg tctcttaaaa tgctctgtgg ggccaaacaa attgtgtgcc 120
agatgtggcc ctcaagttgc cagtcctgtc tgtaccagga tgcttcgtta ttgacaaact 180
ctcacattgc aactggagtg gaaacgggtgt tagccactaa actgngnggg tttcata 237

```

<210> 870

<211> 523

575

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (57)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (62)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (91)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (516)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (519)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (523)

<223> n equals a,t,g, or c

<400> 870

```
ggaaggggga agatctggat ccaaccgtgg gtgatggtac ccgnggcccc caggttngga 60
tnggggatgga ccaaaatccc atctgggcca nccgctctat ggaaaattkg gcttaagtaa 120
ttatttccag tattccattg tattccattg tcccttcgtg ttccataagt taaatgactg 180
tctaattttt ccaaaaattt atttctgact tgagaataag tgtgtcatga ttttcccagt 240
gtaaagacac tgatataact gtagatacca gacattttat gtagtgtcta tgacacattt 300
tagtatgtat gagccaacaa tagacatgtc tttgtcttga ggagtgtcca tctgaattga 360
aaatgtgtca gctttttttt aacatcatca acagacttct taattaagct gccaatatcat 420
actgccata cactgtgtgc tgtctgagaa atgcattgtg taagtgtctat ttccatctta 480
ttaaataaac aatgtttgctc tgtataaaaa aaaaanaana aan 523
```

<210> 871

<211> 1172

576

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (174)

<223> n equals a,t,g, or c

<400> 871

```
gaagccaggt ctgctgtggg caagtatagc ctaaccctag tcttgtaaaa taagccagaa 60
agggttactg agccacctta agctagtacc tatatagtag gcaaaaagta cagaaataga 120
tgcaataagt gtggtgagtc tttgagccta cgagtcatgc caccagccat aagntgacct 180
atcacttgag aacctcctca gcaaagatgc cagaaaacat tcaatcaagt tggcaaatga 240
cacagggaag cttggccctc ttgaccatct tcctggcaaa cctggactgg aagggccatt 300
tgcagcactg tcctggagct aatacactgt ttcactgcct ctgccatata atgatgccag 360
cactagccag ctggtgggta tttggaggaa tcctgcatga ggattgcca ataaggggca 420
ggtacacata cctggcaaag tgatgatgat gtgaattggt tccagtgagg ggattgagtc 480
aaaacttgga tctcaggtac ctcaattttt ccccmattt ctggctacta ctaaaagcca 540
gaaagaacag aacagtggcc tcaggagatc tgagtttgaa tccttgctct ctaggatgca 600
ggtggcttga agcagaatgc cacacctgca agttgattag aactgccttt cttcccaggc 660
ttgacatagg tattaagtc aaattacatg aaaccagtg gtaaaaaagc ctctgaaagc 720
tgtaacaccc ycagtaataa caaaagggat ttttatttcm cagctaaagg gaaaataggt 780
ggagaagtta aaaaataatg tctgatcctg ttcctaagtt ccaaactata gccaacactc 840
tgatgctgct ctttttcttg taggaccaac cgtcccagtt tgccctgggac tttctcattt 900
ttacagagtc ccaaatecta ggaaactgga gcaactggta caactggtca cctactcttg 960
cccctctgta aatcaagcca actgtgacca tccaatgtgc catcttacag ggaaaagtta 1020
taaccactat tcccctataa cataatgcta atgattgtac ttagtacatt tttatacttt 1080
tatgatattt tactgattgg aaatgtcatc ctttatttaa aataaacatg gttttccata 1140
gttgctgccc aaaaaaaaaa aaaaaaaaaa tt 1172
```

<210> 872

<211> 511

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (205)

<223> n equals a,t,g, or c

<400> 872

```
gaaaggccga gatctgtcca gctgcggtga gaggnacgct gaatcgccga agagaattgg 60
ctgcgcttcc ttgtttgtga gctagaatta gaatggcgat cagtccacga agcgatgcaa 120
ctttctccag tcagaaatca acaccttcag agagtcctcg aacaaagaaa tttccactaa 180
ctgaagagga aatattttat atganttgta gagctgccta cttaactgtc ttcaaaagca 240
gcttggaata cattatttct aaagatcaac tttacttagc tcttcagcat gcaggaagaa 300
```

577

```

atccatccca aaagaccatt aataagtatt ggactcctca aactgccaaa ctgaattttg 360
atgatttttg tataatttta aggaaggaaa aacctacttc aaaagcagaa ctactaaaat 420
catttaagca attagatgta aatgatgatg gctgtatttt acacactgac ctttataaat 480
ttctaacaaa gagaggtgag aagatgactc g                                     511

```

```

<210> 873
<211> 464
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (338)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (391)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (437)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (459)
<223> n equals a,t,g, or c

```

```

<400> 873
gggctttgct gtgcagaagc agcagttata tcgggtccctt caagaaactg cctgcagaga 60
ttcctggagt catctgcctg gagcattgsc cactcacctc ctcaactcac ctccctggctg 120
ctccacgtca ttcttccaat ctcatcttaa atgttatttc cttaaagaaa cttttcctga 180
cccagagtaa aatcagtagc ttccgggtatt cactctcaca acaccttgac ttttttcctt 240
catagcactt agcacagttt gcacttataat ttatttttagt gttttctggc ttaaaacctg 300
tttggcctat cactcatgaa actataaaacc agaccctntc tattttactc accactgtat 360
aactagtagc taacagagca tggcataaaag nggctactaa gtaaatgaat aatgaataaa 420
tgaatgaaca tacctgnttg cctaactaaa ggatctagnc attt                                     464

```

```

<210> 874
<211> 88
<212> DNA
<213> Homo sapiens

```

```

<400> 874
tctttttgcc tttaaaaatc cacttgcagc tgcgctaata caagtgtaga ttcctggcaa 60
catgaatctt tgatcccagg ttacaatt                                     88

```

```

<210> 875
<211> 617

```

578

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (533)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (565)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (572)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (578)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (596)
 <223> n equals a,t,g, or c

<400> 875
 gcggccgctg ggcctgagtg tcgccttcgc cgccatggac gccaccgggc gctgacagac 60
 ctatggagag tcaggggtgtg cctcccgggc cttatcgggc caccaagctg tggaatgaag 120
 ttaccacatc ttttcgagca ggaatgcctc taagaaaaca cagacaacac tttaaaaaat 180
 atggcaattg tttcacagca ggagaagcag tggattggct ttatgacctt ttaagaaata 240
 atagcaattt tggtcctgaa gttacaaggc aacagactat ccaactgttg aggaaatttc 300
 ttaagaatca tgtaattgaa gatatcaaag ggaggtgggg atcagaaaat gttgatgata 360
 acaaccagct cttcagattt cctgcaactt cgccacttaa aactctacca cgaagggtatc 420
 cagaattgag aaaaaacaac atagagaact tttccaaaga taaagatagc atttttaaat 480
 tacgaaactt atctcgtaga actcctaaaa ggcattggatt acatttatct cangaaaaatg 540
 gcgagaaaat aaacatgaaa taatnaatga anatcaanaa aatgcaattg atatanaaac 600
 taaccagaaa atgttga 617

<210> 876
 <211> 295
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (271)
 <223> n equals a,t,g, or c

579

<220>
 <221> misc feature
 <222> (295)
 <223> n equals a,t,g, or c

<400> 876
 ggcagtttca attttactat ataaggtgtc taattataacc cattagataa aacaacctca 60
 tcagtcatta gacatcaaaa actgaattaa gctacagaaa acgttgattt ttgaaagcag 120
 cctattatca ctgtcagctt tccatgacgc tgatgtttga ctatagtaaa acaaataaa 180
 tatgtatata cctgatctac tatctatatt gtataaagtg gcaatgacta aaggggcaaa 240
 caagtattat attatatact tggcatttct ncttcatgaa atgatgtggg tctgn 295

<210> 877
 <211> 652
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (154)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (159)
 <223> n equals a,t,g, or c

<400> 877
 cacacataga ccaaacttgt atacacacag acatctacac tgacataccc catgtacaca 60
 cacagatcta gacgtgctcc acatatgtgt gaatatgcgc acatacaggc ctaccacaaa 120
 cacaaaaccc acctgcaaag gtttcacgga acgnggagnc tctcctggcc tcccgteect 180
 cctcccagcc tgtttgttgt gcctctgtag agagcgcctc ggagagagag gcgaagtagg 240
 aagtgggatt ttctcttccc tctcctgggc ccgtttgccc ctaccctcgc ccagcaagct 300
 gcgccccaaat tctattctgc ctctggaaac tgctggacca tccaaggtea gctgcctgcc 360
 ctgaccctta ccccgaggcc agcttgctct cctgggaggc gggacaggcc ccagtgaagg 420
 tccgttgtgc gctgtgccta tctctcgatt ccagggcaga tgagccacaa catcaccacc 480
 ctgccactta caaggtgggg gacctgggtc tgggggtctca ggcgcaaact ggagggcctc 540
 acagcccact agggccccct ccaaccccag taccctcagt ccctcagtca ggtggtgcta 600
 gtagagctat ctctgacgst gcaggcccca ggtagatggg caggggcccg gg 652

<210> 878
 <211> 431
 <212> DNA
 <213> Homo sapiens

<400> 878
 ggaagaaatt tgatttcaga aatgtcctat atttaaataa gcaaagccat tgaaattgaa 60
 gcacatttct tatattgaagc atctgggaaa tacaactgtt aagtatctct caaatattca 120
 gtatatggaa tttataccca catttgtttg tatatctatc tgtaagctgt tgcttagaag 180
 aattgagagt ttggattatt tcagaatata actattacag ttttccatag ttgattgaaa 240
 gtttttaaac tcaaactttc attggtagaa tatctggaag gcatgtttgc aatataatgt 300

580

ggcttgtagg atctctccta cttttttatg ctctgttttg ccagttctca aaagtaaata 360
cctgaagtc tagaggtact ataaacattt tggtaaacad tctttgagac tttttctcat 420
gtacatgtaa a 431

<210> 879
<211> 370
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (370)
<223> n equals a,t,g, or c

<400> 879
aagtcggagg tccccaaatc tgccgtgtat gtggggacag gccctggtat cacttcaatg 60
tcatgacatg tgaaggatgc aarggctttt tcaggtagag ttacccatca gccttcaccc 120
acgtgccacc actgaccacac tgggtaacrt ctcagggcct cagcttgacc trtccccag 180
gttcagagtg tgggctggtg gcccacccaa aggccttgta attagtctca agggagccat 240
ttatatccca gaggaatcct tcatcttcag tcttctgtt ctaccagga aaggtctcct 300
tccattaaga tatcccttgg tttctccatg tgctcttgaa taaaatggaa aatgactcag 360
tgaaaaaaaa 370

<210> 880
<211> 326
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (208)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (298)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<400> 880
gcggaacgct gggcgcgctc cttcctggtg gactcgctag tgctgcgcga ggcgggcgag 60
aagaaggcgc ccgagggcag cccgcgcgcg ctcttccctt acgctgtgcc cccgcgcac 120
gcgctgcacg gtctctcgcc tggcgccctgc cagcgcgca aggcctgggt gctgtgcgtg 180
tgcccgctct gcgtcacccg ctcgcagntg catgggcccc ccgggcgcgc gcgctgcctc 240
tactcaaggc ttccttccca cccttcgggt cgcagtaact cagcgcccc tgggcgcgna 300
gcactctgct gngtcgcccc ggggtcg 326

581

<210> 881
<211> 1315
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1283)
<223> n equals a,t,g, or c

<400> 881
agaggctcag gcttacacag cttacctctc aggaatgcta cgttttgaac atcaagaatg 60
gaaagctgcc attgaggctt ttaacaaatg caaaactatc tatgagaagc tagccagtgc 120
tttcacagag gaggaggctg tgctgtataa ccaacgtgtg gaagagattt caccacaacat 180
ccgctattgt gcatataata ttggggacca gtcagccatc aatgaactca tgcagatgag 240
attgaggctt gggggcactg aggggtctctt ggctgaaaaa ttggaggctt tgatcactca 300
gactcgagcc aaacaggcag ctaccatgag tgaagtggag tggagagggg gaacgggttc 360
agtgaagatt gacaaagtgc gcattttctt attaggactg gctgataacg aagcagctat 420
tgtccaggct gaaagcgaag aaactaagga gcgcctgttt gaatcaatgc tcagcgagtg 480
tcgggacgcc atccagggtg ttctgggagga gctcaagcca gatcagaaac agagagatta 540
tatccttgaa ggagagccag ggaagggtgtc taatcttcaa tacttgcata gctacctgac 600
ttacatcaag ctatcaacgg caatcaagcg taatgagaac atggccaaag gtctgcagag 660
ggctctgctg cagcagcagc cagaggatga cagcaagcgc tcaccccgcc cccaggacct 720
gatccgactc tatgacatca tcttacagaa tctggtggaa ttgctccagc ttcttggttt 780
agagggaagac aaagccttcc agaaagagat aggcctcaag actctggtgt tcaaagctta 840
cagggtgtttt ttcatgtctc agtcctatgt gctggtgaag aagtggagcg aagccyttgt 900
cctgtatgac agagtcctga aatatgcaaa tgaagtaaat tctgatgctg gcgccttcaa 960
gaacagccta aaggacctgc ctgatgtgca agagctcatc actcaagtgc ggtagagaaa 1020
gtgctccctg caggccgcag ccattccttga tgcaaacgac gctcatcaaa cagagacctc 1080
ctcctcccaa gtcaaggaca ataagcctct gggtgaacgg tttgagacat tctgcctggg 1140
acccttccct tgttcaccaa gcaagccaac cttgtggcac ttcccaccag sgtttcagcc 1200
ctttccctgg caaggctttt gttcttttgg ctgggccytc aaaccatgtg ggcttttccc 1260
accccttgag ggacaagttt ggnacaggaa ggaccaagag tgggctcact gggtta 1315

<210> 882
<211> 988
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (550)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (977)
<223> n equals a,t,g, or c

<400> 882
gatcctctgg ttttagaaag acgcagtggg gacagggacc tggagccaga ttggctagcg 60

582

```

caacttcgga ggcagctgga gcaaaaggta gcaggagaca ttggggatcc tcatacctact 120
cgctcagata tttcgggagc cggaggaaca acaacagaaa acactttcta ccaggacttt 180
tctggatgtc aaggctactc tgaagccctt gggtaaccgt cagctctgtg gctgacacct 240
gagcagacct gcctgctcca gccagcccca cagcagccct ttcccccca gccgggctcc 300
taccacgacg gaggggggtgc agggcagaca gggacaccga ggcccttttta ctcagtccct 360
gagacccatc taccagggac tggcagcagc gtggcagtga cagagggcac tggaggaaca 420
gtctgggagg aaatgctgca gacacacctg ggccctggas asaacacagt gtctcaagaa 480
acttcccagc ctctgatgg ccaagaggct atttccaaac cacagacacc attggctgct 540
asaccacgan tatttctgag agttccgcca gtccagccaa ggaggatgag aaggagtcct 600
ctgatgaggc tgataaaaaac tctccccgaa ataactgccc gagaggcaag ctcgagatg 660
ggaaggagca tacaaagagc tcagggtttg gctggttcag ctggtttoga tcgaagccca 720
ccaagaacgc atccccckct ggagacgagg actcctcaga cagccctgac tctgaggaga 780
ccccagagc atyttctccc caccaggctg gcctgggctt ttcactgaca ccttcccctg 840
agtccccacc tyttgccgga tgttagtgcc tyyttccagg ggcakagggtg ggggggtgaar 900
gcckaggaty ccgcatccag cgggggggagc agttgcgggg gcgcttgggg tttggagggt 960
tttttggaac cagaganttt tttctttt 988

```

<210> 883

<211> 440

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (435)

<223> n equals a,t,g, or c

<400> 883

```

gctggacgtg aattttgggg acaactgttca gcacactcca cctagagccc caagggggcca 60
gagtgggttg aaggcggaag gccccagcac agtggaaaagt ccgcgcttga ggagtgaactc 120
tcttgctccst gaggtgtttc cagggtctggg gcagggggccc gtcagccctg aggttccggg 180
atgccctcca tctccacatt cccatgttcc ccacgctggg caggctcttc tctccaggga 240
cactgcgttc atggggagac atcgctcctc gagtcaggag ccagaggttg gagggttggc 300
cgcrctmcag aggaggggga agatcccgtt cccacgtgcg tttggccact gggggcgctcc 360
ctgggccccgt cagcaggatg gctttarcac yggckgagtc tcccttcagc ctcgggggtgg 420
atggtttcca tggcngaatt 440

```

<210> 884

<211> 491

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (174)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (462)

<223> n equals a,t,g, or c

583

<400> 884

```
gtcaaaattg agccagagga tctggacatc attcagggtca ccgteccaga cccctcgcca 60
acctctgagg aaatgacaga ctcgatgcct gggcacctgc catcggagga ttctggttat 120
gggatggaga tgctgacaga caaaggtctg agtgaggacg cgcgggccga gganaggccc 180
gtggaggaca gccacggtga cgtgatccgg cccctgcgga agcagggtgga gctgctcttc 240
aacacacgat acgccaaggc cattggcatc tcggagcccg tcaagggtgcc gtactccaag 300
tttctgatgc acccggagga gctgtttgtg gtgggactgc ctgaaggcat ctccctccgc 360
aggcccaact gcttcgggat cgccaagctc cggaagattc tggaggccag caacagcatc 420
cagtttgtca tcaagaggcc cgagctgctc actgaggagt cnaagagccc atcatggata 480
gtcaacgaac c 491
```

<210> 885

<211> 865

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (683)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (720)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (781)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (817)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (827)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (852)

<223> n equals a,t,g, or c

<400> 885

```
caagcccacg tgcaatgagc tgatcaaaac catcatcatc cagcatgaga acatcttccc 60
aagccccagg gwgctggagg gccctgtcta cagcagagga ggaagcatgg aggattactg 120
tgatagccct catggagaga ctacctcggt tgaagactca acccaggatg tgaccgcaga 180
```

584

```

gcaccacacg agcgatgacg aatgtgagcc catcgaggcc attgccaagt ttgactacgt 240
gggccgggaca gcccagagagc trtccttttaa gaaggagca tccctgctgc tttaccagcg 300
ggcttccgac gactggtggg aaggccggca caatggcatc gacggactca tccccatca 360
gtacatcgtg gtccaagaca ccgaggacgg tgctcgtggag aggtccagcc ccaagtctga 420
gattgaggtc atttctgagc cacctgaaga aaaggtgaca gccagagcgg gggccagctg 480
tcccagtggg ggatcatgtag cccgatattt atcttgcaaa catcaacaag caaaggaagc 540
gtccagaatc tgggaagcat ccgaaaactt ttcggagtga cagccatggg cttgagcagt 600
tccctgactg actcctcctt cccaggggtg ggggctagct gccgccatct ccagccatca 660
tgagccagag ctttccaaag aanggccaga taagtgttc attaatgggc acggagcctn 720
aacttcatta accgcaatca tccttgaaga atcggctgga tagtccacag atccggaaga 780
ntggcacaac gggaagggtca aaaggttcaa taccatnggc catggancct taggcaatgg 840
tcaagatatt gnggaacaat gaact 865

```

<210> 886

<211> 1006

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (138)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (159)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1006)

<223> n equals a,t,g, or c

<400> 886

```

ggcacgagct cgtgccgaat tcggcacgag ctcaaccaac ctgcatctag aaagtgaatt 60
ggatgcattg gcaagccttg aaaaccatgt gaaaactgaa cctgcagata tgaatgaaag 120
ctgcaaacag tcagggcncg gcagccttgt taatggaang tccccaatc gaagcctcat 180
gcacagggtc gcaaggattg gaggagwtgg caacaataaa gatgatgacc caaatgaaga 240
ctggtgtgct gtctgccaaa acggaggaga tctcttgtgc tgcgaaaaat gtccaaagggt 300
ctttcatcta acttgtcatg ttccaacact acttagcttt ccaagtgggg actggatatg 360
cacattttgt agagatatgt gaaagccaga agttgaatat gattgtgata atttgcaaca 420
tagtaagaag gggaaaactg cgcaggggtt aagccccgtg gaccaaagga aatgtgaacg 480
tcttctgctt tacctctatt gccatgaatt aagtattgaa ttccaggagc ctgttcctgc 540
ttcgatacca aactactata aaattataaa gaaaccaatg gatttatcca ccgtgaaaaa 600
gaagcttcag aaaaaacatt cccaacacta ccaaatcccc gatgactttg tggccgatgt 660
ccgtttgatc ttcaagaact gtgaaagggt taatgaaatg atgaaagttg ttcaagttta 720
tgcagacaca caagagatta atttgaaggc tgattcagaa gtagctcagg cagggaaagc 780
agttgcattg tactttgaag ataaactcac agagatctac tcagacagga ccttcgcacc 840
tttgccagag tttgagcagg aagaggatga tggtagggtg actgaggact ctgatgaaga 900
ctttatacag ccccgagaa aacgcctaaa gtcagatgag agaccagtac atataaagta 960
aatgacatg gattttaaact aattgtttta aaaaaaama acgaan 1006

```

585

<210> 887
<211> 602
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (47)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (109)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (110)
<223> n equals a,t,g, or c

<400> 887
accaaccctc actaaaggga acaaaagctg gagctccacc gcggtgncgg ccgctctaga 60
actagtggat cccccgggct gcaggaattc ggcacgagaa caagcggann ggggaaccgg 120
gccgccaatg aagaggaaac gwaaaaacaaa cccaaattga acattcaa ataaaaactttg 180
gcagatgatg tgcgtgaccg aattacaagt tttagaaaat ctactgtcaa aaaagaaaaa 240
cctcttattc aacatcctat tgattctcaa gtcgcgatga gtgagtttcc tgcagctcag 300
ccattatatg atgaacgac tttgaatttg tcagaaaagg aagtattgga tctctttgaa 360
aaaatgatgg aggacatgaa ccttaacgaa gagaaaaaag ctccctttacg aaacaaagac 420
tttaccacca aacgtgagat ggttggtccag tatattttctg ccactgccaa atctatagtt 480
ggaagtaaag ttacgggtgg gctgaaaaac agcaaaccatg aatgcaccct gtcttcacaa 540
gaatatgttc atgaattacg atcgggtatt ttcagatgag gaaacttctt aaattgccta 600
gg 602

<210> 888
<211> 800
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (623)
<223> n equals a,t,g, or c

<400> 888
cacacacaca ggagagaagt cctatgtgtg cagtgtgtgt gggcgaggct tcagcctcaa 60
ggccaaccctc ctcagacacc agaggacaca ctcaggagag aagccttttc tgtgcaagggt 120
gtgtggacga ggctatacca gtaagtcata cctcactgtg catgagagaa cacacacagg 180
agagaagcct tatgaatgcc aggagtgtgg gcgaagggtt aacgataagt cctcatataa 240
caagcacttg aaggcgcatt caggggagaa gcctttttgtg tgcaaggagt gtgggagagg 300
ctatacta ataatcact tctgtgtgca caagagaata cactcaggag agaagcctta 360

586

```

cagatgccag gagtgtggcc gaggccttag caataagtca caccttatca cacaccagag 420
gacacactca ggggagaagc cctttgcgtg caggcagtgt aagcaaagtt ttagcgtgaa 480
aggaagtctc ctcagacacc agagaacaca ctcaggggag aagccttttg tgtgcaagga 540
ttgtgagcga agcttttagcc aaaagtcaac tcttgtctac caccagagaa cacactcagg 600
ggagaaacct tttgtttgta gangaatgtg ggcaaggatt tattcagaag tcaacccttg 660
ggaaacatma gatcacacac tcagaggaga agccttttgt gtgcaaggct gtggacaagc 720
tttatccaaa agtcaacttc actttcacca gaggacacac tcagaggaga agccttatgg 780
atgtcgggag tgtgggagaa                                     800

```

<210> 889

<211> 387

<212> DNA

<213> Homo sapiens

<400> 889

```

gctctttatg tctctattgg aagatacttt gtctaaacaa aagaatccag atgtgcgcaa 60
tattgttcaa cagcagttct gtggagaata tgcctatgta actgtttgca accagtgtgg 120
cagagagtct aagccttttg caaaatttta tgagctggag ttaaataatcc aaggccacaa 180
acagttaaca gattgtatct cggaattttt gaaggaagaa aaattagaag gagacaatcg 240
ctatttttgc gagaactgtc aaagcaacaa gaatgcaaca agaaagattc gacttcttag 300
ccttccttgc actctgaact tgcagctaag gcgttttgtc tttgacaggc aaactggaca 360
taagaaaaag ctgaatacct acattgg                                     387

```

<210> 890

<211> 385

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (311)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (327)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (350)

<223> n equals a,t,g, or c

<400> 890

```

ggcaggaggt caacggggag gtgcggagtc ggagagacag catctgcagc agcgtgtcct 60
tggagagctc tgcagcagaa acacaggagg agatgctgca ggtgctcaa gagaaaatgc 120
gactcgaagg acagctggaa ccttgtcact ggaggcgagt caggcactta aagagaaggc 180
tgagctgcag gccagctgg ccgccctcag cacgaagctg caggcgaggc tggagtgcag 240
ccacagcagc cagcagcggc aggattcgct gagctcggag gtggacaccc tgaagcagtc 300
gtgctgggac ntggagcgag ccatgantga ccttgcaaga catgctggan gcaaaaaaatg 360
ccagctggcg tcgttccaac aacga                                     385

```

587

<210> 891
 <211> 448
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (385)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (412)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (444)
 <223> n equals a,t,g, or c

<400> 891
 aaaccttaca aatgtgatgt atgtcacaaa tccttcaggt atggttcctc ccttactgta 60
 catcaaagga ttcataaccgg agaaaaacca tatgaatgtg atgtttgcag aaaagccttc 120
 agccatcatg catcactcac tcaacatcaa agagtacatt ctggagaaaa gccttttaag 180
 taaagagtgc ggaaaagctt ttaggcagaa tatacacctt gccagtcatt taaggattca 240
 tactggggag aagccttttg aatgtgygga gtgtggaaaa tccttcagca tcagttctca 300
 gcttgccact catcagagaa tccatactgk agagaagccc tatgaatgta aggtttgtag 360
 taaagcgttc acccagaagg ttcantcgca cagctcagaa aaccctacag gngaggaaac 420
 cttatgagtg caaggattgc ggtnaagc 448

<210> 892
 <211> 336
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (11)
 <223> n equals a,t,g, or c

<400> 892
 ggaacagttg ntaagaataa tgtgagttcc tatctgaaat agaatggtac attaccactt 60
 ttaagtttta aaaattgata gatgttcaga tgtatctcaa actcagtttt atttttattc 120
 caaatattgt gaatgagaag ccattgtcct aaactttggc cttttttgtg ctataaacat 180
 gcattttttaa gttataagggt gaatcaaca atatgtaata cagtattagg atgtaatctt 240
 tgcttttgta gtactgttaa aatagagaat tatgttgttt gcaccgtctt aattaaaatt 300
 cttgattttt actagttgct ttgcaaaaaa aaaaaa 336

<210> 893
 <211> 1555

588

<212> DNA

<213> Homo sapiens

<400> 893

```
gcggaagggtg ggtcgaccca cgcgtccgct actaacaact taccacagtg cggagactgc 60
tttctgaaaa ggccactcac gtgaacacta gggatgaaga tgagtrtacc cctcttcac 120
gagcagccta cagtggacac ttagatattg ttcaggagct cattgcacag ggggccgatg 180
ttcatgcagt gactgtggat ggctggacgc ccctgcacag tgcttgtaag tggataata 240
ccagagtggc ttctttctta ctgcagcatg atgcagatat caatgcccaa acaaaaggcc 300
tcttgacccc cttgcatctt gctgctggga acagagacag caaggatacc ctagaactcc 360
tcctgatgaa ccgttacgtc aaaccagggc tgaaaaacaa cttggaagaa actgcatttg 420
atattgccag gaggacaagt atctatcact acctctttga aattgtggaa ggctgtacaa 480
attcttcacc tcagtcttaa caattctagt aattttccta agtttctaaa taccagtgcc 540
tcctgtgtgt gagatgtatt ccataaatca aagttgacgt caaacatctt actacaaaaa 600
ttcagtgaca ttcattataa cattcttcca agtgaattgc ctgactttta tgtcaaaatg 660
tatttgaaaag taatttgcat atatctttta ttatttctgt ggagtttggtg atttttttat 720
cagaaataat tttaatgtgt gtatacttaa aaacttgaca cgggttggtac agaaactggg 780
attttttggtg ctgatacaag agaaatgtat ttttaaatat cccacatcct ggatctttgt 840
tggttatatta gtatattgac atatatTTTT ataaggtgag gtaactcaga acttaattta 900
aaagtcttaa atattctgat acaattcagc tgtcttctct accttaccat agccagttgc 960
tttcatttta aaccagagca agtaacatat tagtgacttg aatcttcata agttaagta 1020
aaaaacagca aaaaacctag atctttgtct tttagaacac agaccatttt caggaaagca 1080
gttagctaag tgtttaattc atgaatattg tatactgcat cccctaccac aatttacaca 1140
atcctgtgga tagtcctacc tcacctgggt caacctacat gatccttaag ctaatggcga 1200
atcacgatga ccttgtagac atgcacacaa ctataacctt gtccaacaga tcataatata 1260
tctgctatcc aactggtttt acctgcctaa tcctactgat ttgggcactg cttgtatagt 1320
ctctcaagtt cacaggaaat gttgattttc taaggtcctc atttttacag agtatacagg 1380
caaagtgaca ggggaaaagg aattagtcta agagtaaggg gatgattatt atattgaggc 1440
taaaaccaca aagtggctca ggctttaaaa aaaaaacact gtggataatg acaaaaagca 1500
taagtaaaaa tatttgagaa aaataaagta caagttttga mcaacaaaaa aaaaa 1555
```

<210> 894

<211> 743

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (5)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (14)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

589

<220>

<221> misc feature

<222> (75)

<223> n equals a,t,g, or c

<400> 894

```

actcncgggt tagntggtac gcccgcaggt accgggtccgg aattcccggg tcgacccacg 60
cgtccggnaa aaaanatgga aaaagaccca agcagattgc ttctttgggc tgctgaaaaa 120
aatcgggtaa aaaaaaaaaat tacagagggga agtgtgacag taggaaaagc actgggttca 180
agccagaaga cctgccttta ctggttatggc catcatacct atctcttgat tgtgaggacc 240
aaatgagaca atgtacatga aagcacatat taagctgcaa agtgtcatgc tagcttacca 300
caattttacac aatcctgtgg atagtcctac ctcaccctgg tcaacctaca tgatccttaa 360
gctaattggcg aatcacgatg accttgtaga catgcacaca actatacctt tgtccaacag 420
atcataatat atctgctatc caactgggtt tacctgccta atcctactga tttgggcact 480
gcttgatatag tctctcaagt tcacaggaaa tgttgatttt ctaaggctcct catttttaca 540
gagtatacag gcaaagtgc aggggaaaaag gaattagtct aagagtaagg ggatgattat 600
tatattgagg ctaaaaccac aaagtggctc aggcctttaa aaaaaaacac tgtggataat 660
gacaaaaagc ataagtaaaa atatttgaga aaaataaagt acaagttttg aacaacamaa 720
aaaaaaaaaa aaaaaaaaaa aaa                                     743

```

<210> 895

<211> 158

<212> DNA

<213> Homo sapiens

<400> 895

```

gaggcagcct tgggtgaggg cttccccacc cgcttgcccg acttgaaggc ggctcgcctgc 60
ttgcccccca gtttgtctgg ggggtgcaggg gtgggtggtca ggcctggggg tccgggcgtg 120
cggggctcac tcagggccgt gagagaacga gtacacat                                     158

```

<210> 896

<211> 333

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (298)

<223> n equals a,t,g, or c

<400> 896

```

gatactgagc gtgcgccccg ggttctcgcc gccttctctc cgccgagcag cccttcgggc 60
accctttgcc cttaaaaaatc tgcagactgc gcctcctctc cgcgggagcg agacctagca 120
ggccccggggc tgggcgtgcc ctgcctgcc acgtgcgcg ctgcyctcag ccggggccgt 180
ggggccgctgc agtgcaccgg gcacgccgcg ccaggctggg ggcaggcacc gaggcctccgt 240
gggagggtccc gaggcagctt cgtgctcgc cctggctcca gccctcacct gccgcagnct 300
tagctgarca gmcgcgmca c tgggcgcccc cgt                                     333

```

<210> 897

<211> 696

<212> DNA

590

<213> Homo sapiens

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<400> 897

```

gatngagggc cagacggctg ctacccaggt atcctttctc tttggaattg aaatgcagag 60
aacattatta aacagcctat ttgctgtgag tgtggaagtg tttccacaga cacccttttg 120
ggaaaaagaa aagggcaaga atcaacctga aaactacaga ggatatatta gccacggttt 180
gcacgcattc tgcttatgga tctttcagtg actccagtg ggggccatct gtcccatcca 240
gtgcctgagt gcagccccc ccccccacctt tgggccagag aagtctttgc cccaagaatc 300
tgcccagagt tggggcatca gcccctacag gtgtgggtcc ttcttcagga ctgtgtggaa 360
cttttccttt tgaagaactt tcctggggat gaccactctg cttggagtct ggggtggagc 420
ctggtgtgag ggagccagcg tagggtttgg gtgcctgccc caccctcaga agcaggagcc 480
cagcagccct tggactgacc ggtgctgtty tggggctccc actggctcct tccactgtgg 540
agcactcccg tgaacactgc tttggtttga gtaccagtac aagtgttggg tgtatgttcc 600
tgaccttgag gcattyttga ttgkgcagtt acctagggtg tgcttgtgtc tgacatgatc 660
attttttttt ttttaataaaa aatggcatgg aaaaaa 696

```

<210> 898

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (332)

<223> n equals a,t,g, or c

<400> 898

```

gcattggcct tgggctggta actgttgaag tcaggatgat gggacagaaa ggttcattgt 60
tctatttttg ttccctttat atggetcacc acagagcttc aacagcatgg cccagggtgac 120
acagagcagg gtccctcaggg cttgtggctt gtggcagcat caccctcaga ctgacactgc 180
tgaggagccg gggggcggtta gctgcaggtg tgccctggctg ggtactgagt ggaaagcctt 240
gggcagaatc ttcatagaag tctagagttg gggagagttg gagggatatg taagtgaag 300
gtgtatacac ctggaggctt ccccaggccc tncactctcg ctctgctctt cggttgaggc 360
agatggcact gctggctgtg gagggcctga tttgtaccac cttccccggc kttatgatgg 420
agcaggggacg acaggctctg gctttgggac 450

```

<210> 899

<211> 827

<212> DNA

<213> Homo sapiens

<400> 899

```

ggaagaatcc gatggtggct ggcgagggcc aagtctctta cgccttcccc tcgtttctcc 60
ctccccgcct cctccgcaga agccgagcgc caaactcaaa ctttatcagg acccggaacct 120
ctcaggctaa tcccaggggc cgggcctgtt gggtttttct gcacaccagc cgaggcagcg 180
agccaacatg agccaagtgc tgttccacca actagtcccc ttgcagggtg aatgcaaaga 240

```

591

```

ctgtgaggag aggagagtaa gtataagaat gagcattgaa ctacaatcag tttctaatacc 300
agttcacaga aaggacttag ytattcgtct gactgatgac acggatccat ttttttatat 360
aaccttggtta tatctgagga agattttcaa agkttaaaat tccagcaagg tcttctggta 420
gacttcttag ctttccacaa aaatttatag atctmcttca gcaatgtact caagaacatg 480
ccaaagaaat tccaagggtt ttgctacagt tagytctcca gcagctattk tggataactc 540
acctgcattw kkaaattgtgg tagagacaaa tccttttaag catcttacac acctctcact 600
aaaactttta cctggaaatg atgtggagat aaagaaattt ctgcgaggct gtttgaaatg 660
tagcaaggaa gaaaaattat cattgatgca atcactagat gatgctacta agcaactgga 720
ctttacacga aagacattag cagaaaaaaa acaagaatta gataagttac ggaatgaatg 780
ggcgtcacat acagcagcct tgacaaacaa gcattctcag gaactga 827

```

<210> 900

<211> 755

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (650)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (680)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (719)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (725)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (737)

<223> n equals a,t,g, or c

<400> 900

```

gtcccttaaa ttctgatcat gtaggacatt cttctttgcc ctgggcoctgg gaaaatgcag 60
catgtccaga gcaaaagtcc taatgagggg actaaaccag tgggacccaa accaatgtcc 120
tggtcactc agsacccggt agaaccacaa ctctgggtgt ggacaggctc ccatacttwt 180
caaaaattcc cctgatgact aatgaacaac cagrggtaag aaccagtggc ccagaggaat 240
aaccagccca gctgttgtac gagctcgcta agctggctca ggtcaatgtt gaattctctg 300
ctaggcagct cctcataaga actggcagag atggttotta cacaacaaca ggtgacaact 360
ccagactctg ccggaagtcc caggatctgg gtccccggac aatgcatgac actcagtcct 420
gcattgcagg tggaagagcg acggtgaaaa gaccraagtc aattaaaatg tgtaaaccaa 480
aacaggaaac atgagtgagg tgattgagag tgtgtttaac ttagatgtgt gattttatca 540

```

592

```

atacttttcat tgttcaaaaa ctcttatttt ttaaagatat tttcaaaaca aatccaaact 600
ttactttttca ttccaaaaaa aaaaaaaaaag ggcggccggt ctagaggatn caaagcttac 660
gtacgcgtgc atgcgacgtn atagctcttc tatagtgtcc ctaaattcaa ttcttggcng 720
tccgntttac aacgtcntga ctgggaaaac cctgg 755

```

<210> 901

<211> 659

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (564)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (634)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (655)

<223> n equals a,t,g, or c

<400> 901

```

aattcggcac gagccgccgc cgggymgcc aaggssaccct ctactgccgc gtcttctctgc 60
tcgacgggac cgaagtgagc gtggacctgc cgaaacatgc caaaggccag gatttggttg 120
atcagattgt gtaccacttg gaccttgttg aaacagatta ctttggcctc cagttcctcg 180
actctgccca gggtgcgcac tggctggatc atgccaaacc cataaaaaag cagatgaaaa 240
ttggacctgc ttatgcttta cactttcgag ttaaatacta ttcttcagaa ccaaacaacc 300
ttcgtgagga gtttacaagg tacctgtttg ttttacaact caggcatgac attctttctg 360
gaaaattgaa atgcccttat gaaacagctg tgggaattagc tgctctctgt ctacaagcgg 420
actttgtgtg agtgcgagct tccagaacac acaccagagc ttgtgtctga gtttcgggtc 480
attccaaatc agacagaagc aatggaattt gatattcttc agagatggaa agagtgcagg 540
ggaaagagcc ctgccaggg cggaactct cctatctgga atgaaagcga agttggctgg 600
gaaatgtatg ggggtagaca tggcacgttt gttnaggggg gaaggagatg ggctnttga 659

```

<210> 902

<211> 597

<212> DNA

<213> Homo sapiens

<400> 902

```

gtattgacca gaaataaact tttaaatgat ctgtgatgtt tacaaggata tgtctaaaac 60
gtttattaca ttatttttct cttaatgtga attctccacg tttgaaactg taactcgttt 120
tctcattttt tgttcttctt gttacttctc catattgtgt acttggaaat tacctttgta 180
aatacttgag aaattcgttc ttatatataa ttaatatataa aagtttgcac ttctcaaaaa 240
catctctatc aaagcctgtg ttctcacgag ttaatatatca aagtcctaat aaaataatca 300
caactacca aatgcttata aaatatgttc gattactgga tttttattca ttaaacagaa 360
ttaattttat ttgacatatt taaaggcgcc atttagaaat aaaawtgctt attatgttgc 420

```

593

aatactgtat ctatttcagc ctctacaccg ttttcttttt tgtttcacct gaaactagtt 480
ttcccttccg ttttttttct tgttctatca agctaataa tatatcaaca tacagtaatg 540
gggtgctggt ttttgtaagt taaatatgta cctgcattaa ataaatagta aacatgt 597

<210> 903
<211> 319
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (1)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (274)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (307)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (312)
<223> n equals a,t,g, or c

<400> 903
nactaccatt gagaaacaag atcctcatgt tgctccttga cttgagagtg ggtggcctgg 60
gccccaaaggc cgaccgtttg gaggagcttg tggaggagct ggaagcagcc ccttgctgtc 120
cgctttttgga ggtgggggtct gttttggacc tcctgggtca gctggcaggg agtgggtccc 180
ctcaagttct gccgagaaaa cgagactact tccttaacaa caagcatgtg gggagaaacg 240
ttccgtacag cggctatgat tgcgacgacc tgantgtgtt tgagatggac gttcaatctc 300
tgatctncag anaagagtg 319

<210> 904
<211> 653
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (165)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (205)
<223> n equals a,t,g, or c

594

<220>
 <221> misc feature
 <222> (554)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (575)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (588)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (642)
 <223> n equals a,t,g, or c

<400> 904
 aagtcaagat caacaggaaa actgcatttg gaactacaac tcttgtcttg actgatttta 60
 gcaataaatc cagtactttg gaaagaaaaa caaagcaaaa ccagatacta gatgaggagt 120
 ttcaaaaactc tcctcctgct agtgtgtgtt tgaatgatat acagnacccc tccaagaaga 180
 caacaaaacga tataactcaa ctatncagca tagtaaacad atcacctaca atcagttcag 240
 aatctaaatt atttagtcca gcacataaaa aaccgaaaaac agcccactac tcatcaccag 300
 agcttaaaaag ctgcaaccct ggatattcta acagtgaact tcaaattaat atgacagatg 360
 gccctcgtac cttaaatect gacagccctc gctgcagtaa acacaaccgc ctctgcattc 420
 tccgagttgt gaggaaggat ggggaaaaaaca agggcagggc agttttatgc ctgtcctctt 480
 acctaggagg aaggcacaat gtgggatttt ttgggaatgg ggcagatttt gttcctttcc 540
 ctttctggca accnggggca aggcgtttcc caccntggaa aacagttntt ggaaggtttg 600
 ggaccttaac attggggaaa ggattttttt ttgtttgtgg tnccttttg ggg 653

<210> 905
 <211> 727
 <212> DNA
 <213> Homo sapiens

<400> 905
 cacggtggaa gggctggggc cacggggcag agaagaaagg ttatctctgc ttgttggaca 60
 aacagagggg agattataaa acatacccgg cagtggacac catgcattct gcaagccacc 120
 ctgggggtgca gctgagctag acatgggacg gcgagacgcc cagctcctgg cagegctcct 180
 cgtcctgggg ctatgtgccc tggcggggag tgagaaaccc tccccctgcc agtgcctccag 240
 gctgagcccc cataacagga cgaactgcgg ctccccctgga atcaccagtg accagtgttt 300
 tgacaatgga tgctgtttcg actccagtgt cactgggggtc cccctggtgtt tccacccccct 360
 cccaaagcaa gagtcggatc agtgcgtcat ggaggtctca gaccgaagaa actgtggcta 420
 cccgggcatc agccccgagg aatgcgcctc tcggaagtgc tgcttctcca acttcatctt 480
 tgaagtggcc tgggtgcttct tcccgaagtc tgtggaagac tgccattact aagagaggct 540
 ggttccagag gatgcattct gctcaccggg tggtccgaaa ccaaagaaga aacttcgcct 600
 tatcagcttc atacttcatg aaatcctggg ttttcttaac catcttttcc tcattttcaa 660

595

tggtttaaca tataatttct ttaaataaaa cccttaaaat ctaaaaaaaaaa aaaaaaaaaa 720
aaaaaaaaa 727

<210> 906
<211> 778
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (3)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (23)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (25)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (608)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (659)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (731)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (754)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (761)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (775)

596

<223> n equals a,t,g, or c

<400> 906

```
agnccatgtc caaggcgtgc ttntntaact tattccatta atactctttt tcacttaggt 60
acatctctct gtctttggag cttccaacat ttttcccttt taattttatt taaaaatgtt 120
ttcttccttc atttattttc cccccataaa acagtatgac aaagggtttg attcagggag 180
agaaaggata tatgaagaca cattcttccc tcttctattc tcttccctgg ttagaaataa 240
ataggcatat agtcctgttt attatgggca ggaaggtagg taaagatcac ctaagtgtt 300
atggcgtgtt ggctttggca catggagaat gagtttttga tcttgttttc tcggcatgtc 360
tgtttcatga gatgagcctg taggaagagt tactaggctc cctgactaag cagcccgag 420
tcttgaccww ywkcaggctg tcaacaatcc taaatagcat atttattacg gactcaaaat 480
gaaatcttra aaaacaaaaa cacaatatat atgtcactgc atggacatcc atcacttttt 540
ctgagcctgt attgcctctg caaaacatta tagcagttac ttagagggaa ggattttttt 600
ctagcctnct ggtaacaggc tccattcaga actttctcga catcttatat caatacttnc 660
tacatctaca agccccagaa atctctatgg tctacttggg aatggctatt taaaagcttg 720
aggcacagcg naaaaagcta accataagaa aagnaatttg nttcttctaa atttnaag 778
```

<210> 907

<211> 569

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (569)

<223> n equals a,t,g, or c

<400> 907

```
gagccagatt gccactgca ctccacctgt ggcacagagg ggctgtctc aaacaacaca 60
aacaacaaaa agagcaggkt cataatcaca cagcagtgcc ttatatagtt gccataagac 120
ttcagtgacg tacaacataa ttttacagct acatatcagg gcatattcta tatggtgtat 180
ttgtgttaga ataacacatt aaatgtcttt aaacataaaa ataagaatgt ttgcatgttt 240
cagttttcaa gaaccaaatt agtaattagc tatagattcc actggcctta aacatacaat 300
taagtgtata catgatatag tgcacacaca aaagccacct ttaattattg aaataacctg 360
tattcttttt ggaaatcatt taagtttggg attgaagtac tatatttttt gtgcatcaat 420
gtattttttc atttacaagc ctatgtaaaa gtgaagtgtg tcttcagtga accatgtgcc 480
aattaagctg taataaaaaa gtggtctagt ctgtcaaaaa aaaaaaaaaa aaaaaaaaaa 540
aaaaaaaaaa aaaaaaaaaa aaaaaaaan 569
```

<210> 908

<211> 378

<212> DNA

<213> Homo sapiens

<400> 908

```
gtttgcagtt agaagcagggt gttgtaacat ctattaaatg attttataaa tcttgggttt 60
tatcacattt gattaaatgc tgctaagcca ctgatgggtca attccagagg aaaaaaaaaa 120
tttaatgact acagtttata aaattaatca ccaggcaaaa ctacatattt aaatgtcaa 180
aaggcttgaa tcatgaaaag aattcctcaa ccttgttacc aaattattgt ttccaggatt 240
caciaagcat gttatatatc cattttatatt tcagtttata catatgactg gtttctattc 300
ctgagactta agtaagtact tgggtgcgctt tttcttttgg tacagggtcag aaataaatca 360
```

597

ggataatgaa aaatagaa

378

<210> 909

<211> 693

<212> DNA

<213> Homo sapiens

<400> 909

```

aattcggcac gagagaaaaa gaaaaagaag gttaatcctt cagttatgga ggtgggatga 60
atagagcttg tttgatgtta aagtgggtaa ggagggagtg gccttgagac acttgtattc 120
caaactctcc tggaggtttc cagtagcact actgttccta aaagggtttc atttttaact 180
tcactctgtt tgtaacatc cagtccaatt gaggtgatct cagaggtgca tcaggacatc 240
tagcactggg gaggccacct tgcccagata gttgaaaaga aaattggtct gggcagcctg 300
ttgtcttttg tcttcatgta atgttttttc tttgttttaa aggactaatg tttattacag 360
tgttaaataa aagtgtgaaga tactaagtgt gtagaataaa agtgcaataa caaaagacaa 420
tgactttggc acacacttca gtctttatcc tctctccttt cttgtgtac ctggctcttt 480
ccataatatt gttacagcag gaccgtctta attgtgtgca ttttgaagag atgcgactct 540
gggttaatct tcattagtgt aatattgaag gggtgggttt ggttttatag agtattctgt 600
atacttgttg ggatacacaa ataccagatg tgctgtataa taaagatcac attaacgttt 660
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaa 693

```

<210> 910

<211> 371

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (281)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (351)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (364)

<223> n equals a,t,g, or c

<400> 910

```

ggcacgagct gacccggaat ggaggaggcg gaggagctgc tcttggaggg gaagaaggcg 60
ctgcaactcg cccgcgagcc gcgcctgggc ctggacttag gatggaaccc ttccggagaa 120
ggctgtacgc agggcctcaa agacgtccca cccgagccga cccgagacat cctcgcttta 180
aagagccttc cccggggctt ggcccttggc cctcactcg ccaaggaaca gcgcttgggg 240
gtctggtgtg tcggggamcc cctgcagccc rgcygcatgg ntacctggcc aagaagttac 300
acagccccag tgatcagttc ccacccagag caaagaaccc agagctggaa nccaacagtc 360
tggntttcct a 371

```

<210> 911

```
<211> 684
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc feature  
<222> (583)  
<223> n equals a,t,g, or c
```

```
<220>  
<221> misc feature  
<222> (676)  
<223> n equals a,t,g, or c
```

<400>	911					
ggaacttctt	aattgtaggt	tcctctgaag	cgatttcatg	tagatatgtg	agtgttttaa	60
acaagtctga	aagtgttaca	tacttttagg	ttacaggggt	gctggggaga	cagctgagga	120
aaggaagaat	atgtggaaga	caccacggag	ttcaaagttt	taccctgagt	tctatcttcc	180
atgtatgttt	tgcttaaggc	atttctcatg	tgacattaga	aaagctatat	ccaaaggtam	240
atTTTTTgtg	gcaaagattt	atTTTtacct	TTaactTTTg	ggattTTtatt	Tgtttcagca	300
aaataaagag	cactgaactt	TaaactTgaa	TTTTTtctgc	actTTTTttag	gtmatgaaaa	360
ctTTTTtatta	TcattTtaatc	cacatkgctc	agTTTtaaacc	aagtgataca	Tgtgtataaa	420
acataccaaa	atcatgaata	Tgctgctagc	Tgtaccttaa	ataaactgat	cagTTTTtaa	480
acctTTtaata	gggTTTTtata	tagatwtwwa	aaatagtaaa	ataatctgct	gtatgttttca	540
gtgttctttgg	Tcttaaatta	Ttgcaacact	Ttcagatttg	atntaagatc	atacagtaac	600
atgttatatt	tatacatact	gctagaaaat	atactTTTTag	TTTTaaaatg	gaattTTTTat	660
aaatgtactt	TaatTntaaa	atgg				684

```
<210> 912
<211> 471
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc feature  
<222> (398)  
<223> n equals a,t,g, or c
```

```
<220>  
<221> misc feature  
<222> (423)  
<223> n equals a,t,g, or c
```

```
<220>  
<221> misc feature  
<222> (457)  
<223> n equals a,t,g, or c
```

```
<220>  
<221> misc feature  
<222> (468)
```

599

<223> n equals a,t,g, or c

<400> 912

```
ggtgaacccc aagttaaaac cttccaaggg cttcccaatg ctcttaatat aaaatccaaa 60
ctgtcccata tgatctgacc tctcccaaac tctccagcct acttttatgc cactttcccc 120
tttactctct atagtttggc catatttgac tctctctact tctcaccac tgktttctca 180
cagtacaatg tacatacggt tataacattg atcccactgt actgtattct ctgggttgcc 240
tttctctact agaatgtaag ctcttcagaa ggcagtgaga ccatgcttta tattaccctt 300
gcactcctag tttccggcag tgttgactca aacatttggt gagtaactga gcaaataaag 360
aaaaatagaa aagacaggag aaggaagagg taggctangg gaagataatt ttgtttttaa 420
acnttaagtt ttaggtggca ctggtttagt ggaatanaaa tgcacaanaa c 471
```

<210> 913

<211> 604

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (545)

<223> n equals a,t,g, or c

<400> 913

```
gcgcgacacc anccctcact aagggaacaa agctggagct ccaccgcggt ggccggccgct 60
ctagaactag tggatcccc gggtgcagg aattcggcac gagtaactat agcagctaag 120
catttgaatc agacttctca tagcaatgtt atgggctgtc tgatatattc aggatttggt 180
gagcagataa gctgtgtgtg atcttactca ttctcagcca tgccgcagac ataccattt 240
cccttttagta attttttaat acagagaatg ctattaactg ttactggata tcaaataaatt 300
ttatttttct aatagtatit tccaaatatt tcttaaaatt cttaaaattt aggttaaagt 360
ttgtctggct cttacattta ataaagctgg gacttgaaga cttaccatag ttttcaactg 420
cctttgcaag ttcataaact tctaagggtg aaaagtgaat aagataaatt cagagtttta 480
aggtaaaggc tttatattag cttttttttt ttttaaagggt tttttgtggg gtttttttgt 540
ttttnttttt ttttgggatg gagtctcgct ctgtcaccca ggctggagtg cagtggcacg 600
atct 604
```

<210> 914

<211> 367

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (317)

<223> n equals a,t,g, or c

<220>

600

<221> misc feature
<222> (346)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (362)
<223> n equals a,t,g, or c

<400> 914
ccccacaatc ctaggcctac cgcgcgcart actgatcatt ctatttcccc ctctattgat 60
ccccacctcc aaatatctca tcaacaaccg actaatcacc acccaacaat gactaatcaa 120
actaacctca aaacaaatga taaccataca caacactaaa ggacgaacct gatctcttat 180
actagtatcc ttaatcattt ttattgccac aactaacctc ctccggactcc tgcctcactc 240
atttacacca accaccccaa ctatctataa acctagccat ggccatcccc ttatgagcgg 300
gcgcagtgat tataggnttt cgctctaaga ttaaaaatgg cctagnccat tcttaccaaa 360
anggaaa 367

<210> 915
<211> 286
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (178)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (248)
<223> n equals a,t,g, or c

<400> 915
gaactttgca ttttgtasta aaaaataggt ttcttaatat atgtgattgt aatggcatac 60
aaggctttta aattcatgtg catataagat aaattttaaa tattctttaga gggttttcat 120
gaaatatcac cttcacatat ttcacagtt cagtacaaaa tgcaaaaatg tctattgnat 180
aaaacgggag atttaatcac gaccacgtta ggaatctccc agttaccctt gggaacacag 240
ccccccanag tggagacatg cttagactgg cattctgggt caacat 286

<210> 916
<211> 1060
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (684)
<223> n equals a,t,g, or c

<220>

601

<221> misc feature
<222> (819)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (842)
<223> n equals a,t,g, or c

<400> 916
gctcccgcag cgctgtcatg gcgtcctgcg gcgccggaag gactggaacg tgcgcctgca 60
ggcctttcttc accagtgaca cggggccttga atacgaagcc cccaagctgt accctgccat 120
tcccgcagcc cgaaggcggc ccattcgagt cctgtcattg tttgatggca tcgcgacagg 180
ctacctagtc ctcaaagagt tgggcataaa ggtaggaaaag tacgtcgctt ctgaagtgtg 240
tgaggagtc attgctgttg gaaccgtgaa gcacgagggg aatatcaa atcgtgaacga 300
ygtgaggaac atcacaaaga aaaatattga agaatggggc ccatttgact tggtgattgg 360
cggaagccca tgcaacgac tctcaa atgt gaatccagcc aggaaaggcc tgtatgaggg 420
tacaggccgg ctcttcttcg aattttacca cctgctgaat tactcacgcc ccaaggaggg 480
tgatgaccgg ccgttcttct ggatgkttga gaatgttgwa sccatgaagg ttggcgacaa 540
gagggacatc tcacggttcc tggagtgtaa tccagtgatg attgatgcca tcaaagtttc 600
tgctgtcac agggcccgat acttctgggg caacctaccc gggatgaaca ggcccgtgat 660
agcatcaaag aatgataaac tcgngctgca ggactgcttg gaatacaata ggatagccaa 720
gttaaagaaa gtacagacaa taaccaccaa gtcgaactcg atcaaacagg ggaaaaacca 780
acttttccct gttgtcatga atggcaaaga agatgtttng tggtgactg agctcgaaag 840
gntctttggc tttcctgtgc actacacaga cgtgtccaac atggggccgtg gtgcccgcga 900
gaagctgctg ggaaggctct ggagcgtgcc tgtcatccga cacctcttcg cccctctgaa 960
ggactacttt gcatgtgaat agttccagcc agggcccaag cccactgggg tgtgtggcag 1020
agcaggaccc aggaggtgtg attctgaagg catccccagg 1060

<210> 917
<211> 713
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (258)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (676)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (694)
<223> n equals a,t,g, or c

<220>
<221> misc feature

602

<222> (703)

<223> n equals a,t,g, or c

<400> 917

```

gggcaccttc cttccttgat ttttaagtctt cagcttcttg gccaaacttag tttgccacag 60
agattgttct tttgcttaag ccccttttga atctccatt tggaggggat ttgtaaagga 120
cactcagtcc ttgaacaggg gaatgtggcc tcaagtgcac agactagcct tagtcatctc 180
cagttgagggc tgggtatgag ggggtacagac ttggccctca caccaggtag gttctgagac 240
acttggaaga agctttgngg ctcccaagcc acaagtagtc attcttagcc ttgcttttgt 300
aaagttaggt gacaagttat tccatgtgat gcttgtgaga attgagaaaa tatgcatgga 360
aatatccaga tgaatttctt acacagattc ttamgggatg cctaaattgc atcctgtaac 420
ttctgtccaa aaagaacagg atgatgtaca aattgctctt ccaggtaatc caccacggtt 480
aactggaaaa gcactttcag tctcctataa cctcctcacc agctgctgct tcaggataaa 540
tgttacagca gtttgccaag gcggggacct aactgggtgac aattgagcct cttgactggt 600
actcagaatt tagtgacacg tggctctgat ttttttttga gacgggggtct tgctctcacc 660
caggctggga gtgcantggc aactgacta cagncttgac ctncaccaggc tca 713

```

<210> 918

<211> 595

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (18)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (32)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (566)

<223> n equals a,t,g, or c

<400> 918

```

ganacnacc tcactaangg aacaaagctg gngctccacc gcgggtggcgg ccgctctaga 60
actagtggat ccccccgggt gcaggaattc ggcacgagct gaattagaca tattctttta 120
aaataagatc cgttgtcagc catctaaaat gttttttataa attcatactt acattctttt 180

```

603

```

ttgccggttg cagtcagcct ttagtgccaa gagagaacat tacagcatgg atgaatgcaa 240
ttggtttgat catcactgcc ctaccagtga gttaataatt gtgatttgta cttagtgatg 300
aaatacagcc agctgttcca tgtcagcaaa aagaaaaaga tgcataatagg atgcccttgt 360
acgggacgtc atgcaaatta atgaagtatt ttatgttttt aaagtttttt catattatta 420
ctgcttttaa aatctacagt gactagtttt tgcttttctg tattagatct aaatataatct 480
atgtgactta cgggtctctg cattttcttg taccacetta cctatccaac tttagttttt 540
acataatagc ttgatctact cttggncact taacgtgttg tataatctaca gcctt      595

```

<210> 919

<211> 278

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (180)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (238)

<223> n equals a,t,g, or c

<400> 919

```

ggcagagctt ggctagatth gaagtgtaat agattaagga aagaaaatcr gttatattct 60
tcasaatagt ttgtctgagt tcatgcttca tgactgtcat gtgttgagtt atctttcttg 120
caagtggaaa tgacggagga gccttaacac gtgtctactg tggaatgttg ttgctaaagn 180
gtaggagaga gctggccagg cgccgtggct cagcctgtg aatcccagca ctttgggnng 240
ccgaggcggg aagatcacct gagatcaaga gtttgaga      278

```

<210> 920

<211> 347

<212> DNA

<213> Homo sapiens

<400> 920

```

gggatgcgga ccaccttttg cagaactcat atctcgagca gtttaaattg cttgtgcctg 60
ttaacaagaa tactgaccag aatgctcttc atgtagctta tacagtttgt tcacttcatg 120
cggttcttga catgtttatt tctaccctta atgcaatgaa atgtttcatt aataaaaaaac 180
cactttatat aaaattgctc tagaagtcac atgtcattgg atgtcctgtt gtttatggag 240
tttccctgga aagatgttcc ttgacagatg cagccctgag tcacacactt gggccatgtc 300
tgatctagag ttcgctgtag tggacagtta caatcagccc tcgtgcc      347

```

<210> 921

<211> 153

<212> DNA

<213> Homo sapiens

<400> 921

```

gttgtgaagc atgcacggga aaggcaccca ggtaggggg gatccccgag gagatgcctg 60
agctgaagga ttgtggttgg ggaaagcgta gtcccagcaa ggaagcagtt tgtgggtaag 120

```

604

tgctgggagg tgagtggagt gagcttgtca ggg

153

<210> 922
 <211> 930
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (46)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (170)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (173)
 <223> n equals a,t,g, or c

<400> 922
 ccccaaggcc gtggggacca atggtaaaaa ccaattacca ccttgntgcc gcaccttaaa 60
 gactggatgg tgtatattat tcacaattac atcctctttc ccatagcctg gcagaggaaa 120
 gtagttacca gcacggaaca atttcaacat ctactggag tctccaaaan ccnagcagat 180
 actgcaggat gtcattaagc aacttactgt cacttcacac catatgtggc agtaagaaac 240
 ttaatttttaa aattaaaagg cacgcataag ctgatttcaa atattttaag tccaggctac 300
 tctctttaga tacaatgttt tgaacacttg tatagaaatg tttattttaa aactgttcta 360
 tacaagtgtt caaaacattg tatctaaaga gagtagcctg gacttaaaat atttgaaatc 420
 agcttatgcg tgccttttaa tttttttttt aagtttctta ctgccacata tgggtgtgaag 480
 tgacagtaag ttgcttaatg acatcctgca gtatctgctt gcttttggag actccagtga 540
 gatgttgaaa ttgttcctgt gcttggtaac tactttcctc tgccaggcta tgggaaaagag 600
 gatgtaattg tgaataatat acaccatcca gtctttaatg tgctgcaaca atgtagtaat 660
 ttgttttttt catttgttcc cactgccttt gtgtacatag aaaacttaaa aatttcccc 720
 agtctattag aagttaagat gttccctaata ttattaaata tgcctttatt cacaatttgt 780
 ttttttaggt tattcttaata gcattataga attaagtatg actttgttta tttttattac 840
 agtatgtagt tattgacata ttgtggtttg cagaattatc aattgtataa actaaacctt 900
 taaattaaaa aaaaaaaaaa aaaaaaaaaa 930

<210> 923
 <211> 1358
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (681)
 <223> n equals a,t,g, or c

<400> 923

605

```

tcctaccaca aattctacat caagaagaaa gttttaaagt tagactggat ttatttgtga 60
ttttatggag cacaataagg tacattgaga tagcatacta aaggaggcca aatacaggaa 120
gcatcatctt ttcttattct ctactgcct ggattttccc actgacctgg aattgtgcac 180
agttctacaa aggacaattg acattgtttt ctttttacta agtagtgggt tttccttaag 240
gtccagactg aattttgaga cctgtaccag gattgccttc tgtgtgactt tttcttgacg 300
gatctgacat cattacctat ggggtccatat atttgtgata ctttggtttc gggaacatca 360
cttttagaat gttgacataa aatgcaccca cagaatgccg tatttatcaa aagtaacttt 420
ctagcaaaat ctacagcagt aggcatttgg aatctgcatt tgagacctct gcagtcattt 480
ggtcattcca gcaatctatg tccaggttgt caatttcaga ggtctyatta rtctatacag 540
gtaccaatga gctttcagat gttcaacacc taccctggc ctaactgctg ataaccaacc 600
ataacccttg cagatgcatg cwtgttttct gcaccttgct atcatttttc artccatttt 660
tcacatgtat acatagtgat nattttttaa tgcaaccctg atttcacatg cctcatgttg 720
aaatatcgtg tggcttattg kggactwaaa gkgtaacatt cyccytawgg takgtaagga 780
cttttgtaya aaccaatgcc tatctatcya wcatttctga aaactttttc cycctakgca 840
atattttctg gcctctgtga acaacttgta gttccttgag attyctatta tcacttawgk 900
ttttgcaaat ctgcaattga aatgcccttg ttccttgta atgcctattg aatctatatg 960
aacctgtacg tgtgtttctc actgtgataa tataatcatt gcattgttta tctttccac 1020
tagaaagctt ctagaaagct agkactatct tttttgtctg tgtaattttt gcatcacaag 1080
ctatatttaa atgtgggtgc agtgagtggc tgttttctgc cacatggaga aacatggctc 1140
gcagtgagag agaagaatga agccatgatg aaagcaaaat caagaaagag tcccgattgt 1200
gttcagtagc ctggttcttc tgggtcttcat gttcagggtc acctctgccc ttttcatgtc 1260
ttgattgttg aattcttctg tgagatactc caaatatcct aataaattct catgttttgc 1320
tcaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaa 1358

```

<210> 924

<211> 79

<212> DNA

<213> Homo sapiens

<400> 924

```

gcccackcgt ccgcaagaca ctcatgccct ggcaatgtgg ctgccagaaa ctggtggggt 60
agcaacaaca ttctctggc 79

```

<210> 925

<211> 1426

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1350)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1391)

<223> n equals a,t,g, or c

<400> 925

```

tcttcaactct gatgagggtc cagacttgat aacgcccggt gtgccccatc cctataggag 60
ctggtgagat tgcagcctgc tgcctccct ccatcagcca cagctattgg atttcccacc 120

```

606

```

cagaatcttt aggtaaatga gatcatgatt ctggaaggag gtggtgtaat gaatctcaac 180
cccggcaaca acctccttca ccagccgcca gcctggacag acagctactc cacgtgcaat 240
gtttccagtg ggttttttgg aggccagtggt catgaaattc atcctcagta ctggaccaag 300
taccaggtgt gggagtggct ccagcacctc ctggacacca accagctgga tgccaattgt 360
atcccttttc aagagttcga catcaacggc gagcaccttt gcagcatgag tttgcaggag 420
ttcacccggg cggcagggac ggcggggcag ctctcttaca gcaacttgca gcatctgaag 480
tggaacggcc agtgcagtag tgacctgttc cagtccacac acaatgtcat tgtcaagact 540
gaacaaactg agccttccat catgaacacc tggaaagacg agaactatct atatgacacc 600
aactatggta gcacagtaga tttgttggac agcaaaactt tctgccgggc tcagatctcc 660
atgacaacca ccagtcacct tctgtttgag tcacctgata tgaaaaagga gcaagacccc 720
cctgccaaagt gccacaccaa aaagcacaac ccgagaggga ctcaacttatg ggaattcatc 780
cgcgacatcc tcttgaaccc agacaagaac ccaggattaa taaaatggga agaccgatct 840
gagggcgtct tcaggttctt gaaatcagag gcagtggctc agctatgggg taaaaagaag 900
amcaacagca gcatgacctt tgaaaagctc agccgagcta tgagatatta ctacaaaaga 960
gaaattcttg agcgtgtgga tggacgaaga ctggtatata aatttgggaa gaatgcccga 1020
ggatggagag aaaatgaaaa ctgaagctgc caatactttg gacacaaacc aaaacacaca 1080
ccaaataatc agaaacaaag aactcctgga cgtaaataat tcaaagacta cttttctctg 1140
atatttatgt accatgaggg gaacaagaaa ctacttctaa cggaagaag aaacactaca 1200
gtcgattaaa aaaattatct tgttacttcg aagtatgtcc tatatgggga aaaaacgtac 1260
acagttttct gtgaaatatg atgctgtatg tggttgtgat tttttttcac ctctattgtg 1320
aattcttttt cactgcaaga gtaaccagggt tttgtagcct tgtgcttctt gcctaagaga 1380
aaggaaaaac naaatcagag ggcattaaat ggttttgtat ggtgac 1426

```

<210> 926

<211> 724

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (704)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (714)

<223> n equals a,t,g, or c

<400> 926

```

ngaggaccag tattttgtta aaaagggcat gcaggamayc ttctctgcct cctacccttt 60
ctcatctccg gctccatctc cagctggccc ccagatcctg tggcgacggg tccccatggc 120
agccacctgc tgacctatca ggactcycta tagaggaagt gtccaagtca ctacggttca 180
ttggtttgtc cgaagatgtc atatcattct ttgttactga aaagattgat gggaacctgc 240
ttgttcagct aacggaagaa atcctctcag aggatttcaa attgagcaaa ttgcagggtga 300
agaagataat gcaattcatt aatggctgga ggcccaaaat atagccaaat aacccccggc 360
cagcatggaa caaaactgat caatgcgtgt gctagaaggg gtgggctggg acacaatttc 420

```

607

```
atgttttttgc actaaaaacc ttctctgttaa atagggataa gagaaactct tactatgcag 480
attacgttttt tgaatggtga acaggctatt ttgtacatca ataaaaatgc tgtacagaac 540
acttggaggt gtgccttgta cgtcactcaa caaacactca gcagctgcta aaagaaaaaa 600
aggcatgtgc agagaaatca ttcttaccga agtaggttta tgtgagaagg tatgatattt 660
attacaaaat agccaaagct gaaagacata aaaatcttta aaanaaaaat aaangggcg 720
cccg 724
```

<210> 927

<211> 641

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<400> 927

```
tnaataacat caatgatgac tcctacagta tatttagtaa aagtgagaat gagtgaaaaa 60
gccctactat gtttttaaat agcaagtgtg agctcagtg tagagtggat atacacaccg 120
catgttttca tatgtggcac ttttatgtat catgttgggt tattgttcta gactggactg 180
ttaaatacta tgtttgaggc tgggttggtca tttttataac tgtcttggtg ttttatggcc 240
attattttatt acttttgata cacagaatga gctgcatgca tttatagagc aataagagga 300
tgtattttaat gtgccttggt ttttaactgaa taagaactgg aagcatgaat caataaaact 360
gattaaaatg gtctatttgc tagcattttg atgttacttg cagtcagata actttgatta 420
ctgttgaagt ttaaaaaaag tttgaaaata tttttacaaa ctgtgttttt gatgacacaa 480
aagtgaaata tctacagaga tagatgtaat tttataagac tgccagaatt atttgtatta 540
atttgttgct gtagecctta gggcatgact tctgtatttg tgcaatccta ttctacaatt 600
acattcatcc tattacaact caaaaaaaa aagtcgacgc g 641
```

<210> 928

<211> 245

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (239)

<223> n equals a,t,g, or c

<400> 928

```
cagctccac catggcggag accaagctcc agctgtttgt caaggcgagt gaggacgggg 60
agagcgtggg tctactgccc tcctacctgg acagcgcgat gcaggagaaa gagttcaa 120
acacgtgtcc gcacagcgcc gagatcctgg cggcctaccg gcccyccgtg ccccccgct 180
agcgcgccac ccgcgctcta tcgccaata aaggcatctt tgycgggaaa aaaaaaagna 240
aggaa 245
```

<210> 929

<211> 297

<212> DNA

<213> Homo sapiens

608

<220>

<221> misc feature

<222> (24)

<223> n equals a,t,g, or c

<400> 929

```

agagcgcagac tccatttcaa aaanaaaaaa aaaaaaaaaa aatcacttgt agtcttggtg 60
tggtatcaaa gaatagccac aattagctga aaaggctatt ttaaaaactt ttccaactgc 120
gtatctgtgt gaagtcaact tacttcaaca aaaaagtttg gatgtagaag cagctgtaag 180
aattcaactg tttattataa caagatacta aagagactgt aaaatgccac ccttctcctt 240
ggwttgtttt ggaagttatt cttcataaaa aatgttaacg tgggctgggc atggtgg 297

```

<210> 930

<211> 579

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (474)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (499)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (571)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (572)

<223> n equals a,t,g, or c

<400> 930

```

gctcgtgccg ttgagaattg tataaggact gtattgtata ttgtatgaga ttgtagatcc 60
aggatgagtc acagtatttt tgaagttgta gtaaattggaa tgaactagaa agatagaagt 120
taatgttcgg aaggcaggag acttaaaagt tagattgtaa aaatttgcaa ttaggagtaa 180
taacgtgggt tgagctgaga tcatgagatt gaatagctag atactgaaga tagcaagtac 240
attggaaatg atgaggtcaa atgtcaaaga agataagtaa tttaaatgag acatcaaaat 300
aatggcagtt aagtcagggt gtaaagactg caaagaatga gggaaagtga ctaaacattg 360
ggagagtgat caatataatc aaatagtatg agattccaag ctggaggggt ttgaggagaa 420
ggaagtagaa gtattctgca agaggacact tattttactt ctagaggcag tggntagagc 480
actgagggtt gagaactant ctgcacttaa ggggcgacat gagaagcagc agcatcagtg 540
agagacagat gaccataaga atgaaaatgt nnagggaaa 579

```

<210> 931

609

<211> 670

<212> DNA

<213> Homo sapiens

<400> 931

```

gtttgaactt tgaaaactgg gcaacgggga gaacctgctg tgaaacagac agctttctat 60
tgtgtctaga gtagcgcaga ctttctaaga aatggatgtg gatagagtat gtattggtgg 120
catgcgcctg tagtcccagc cacttggagg ctgaggcagg aggatcattt gagtccagga 180
gcttgaagct ataatgcgcc accatgtctg tgaatagcca ctgcactcca gtctgggcaa 240
catagcagga ctttttctct taaaaacaaa aaagagttcc ggtgaaatgg ataaagcaga 300
ctgggaagga cgaagcctgt kgggctgggtg gggctgagtc ccaaccagct tcatcagtgg 360
tgatcctttt gaacttgtac caaagtttcc agaacagagg cggcatggat ttacccttgt 420
gtgatgctcg atctcagaga tgggactctg tgattggcct ttgttgaact gacagggtatt 480
tgaatgtgca catcctacgt aggacatcgc attgagtgtg ggcatagtgc cagggcagct 540
tgccctcatg ttaccaaacg cgtttcctgg gatctgtcat tctgtccatt gtgctttctc 600
ctgttactct agcagttcag tgaatgtaag attactactc tgtatatgga actttgaaaa 660
caagaatgaa                                     670

```

<210> 932

<211> 1755

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<400> 932

```

gactaggnga agatgctcta gaatttamcc aggttttttaa atcagtaatt targatttct 60
aaccattkga acaaatttta cttacatgta tgcacatgtc atttttcgtg tttctatttt 120
tatgttctca aaggtaggat aagggaagga aggaggaaac agcccatttg gggttcaaga 180
gctagctctg ctaagggctt gtaagctatt tctattctgc cctttgggtc tttctttgtt 240
tgtcttgtct ttattttttaa atgaaattct tgaagctatg tattgaattt tctagtatag 300
aggatgtgac ttccacctcc aaattccatt taactgattc ttttaaaaga aagataggcg 360
tatatacacc acgcaaaaat aataataagg tacctatgtg agaattgcaa attatacccc 420
agggtagcat ttaggcagcg tcggcaaaaa gtgagttaat aaatcagaag ctacatatta 480
aaaaaaaaat cagtcaatcc gtcgtgtgtt taawtcttgc cttaaagtaa tggagatatt 540
gttttgcctt ggtaaccagc aattttttaat ttttttttat tgcccgc aaa ttgagattgt 600
tttgttaaaa tctgttgatc tagcagcaag tagaattatt caactggaat cttgtattct 660
attcagagct taattttccg ttaaggaaaa aaatgagctt cagtttgtgt tgtgatgtgt 720
ataatttgca tgctgaatca caacatgctt ggagagattg tagagactct ttggtaaata 780
atctaacctt tacaatttgc cgtttatatg ttaacmtttt tctataatat gagtgccttt 840
ccaatgcaca gatatttttt atggctgtaa tttctctgta aaaataattt ttaagcatat 900
attttattct ttttttgcaa caaccgagat ttttccaaga ttgttctgtt tccccctgcc 960
ctcctagctc ccgcccccg cacttcggcg cttgtatttt ctaattattc atgggtgcc 1020
tgttgagtgt ttgtaatttg accaccacag gtaagcttcc tgtttacttg aacactcagc 1080
ctcatctccg gtgaatgaag ggaaaagcac agatgggttt ctcaccaggca cagctcactc 1140
caaagggtgc ttcataagag caaccagacc tttctcaagg gagcatttcc ccacttaatg 1200
tgtttatcag catctttctt ccgccaagaa ttcaagagca ttttcaaaat tgatagattt 1260
tgggtgcagtt ttgcaagttt ccgtggaagg ctgtctcccc cttctgggat ccacccccat 1320

```

610

```

gtcgggacca gatcggctgc agggagtcac gtttatgaaa tgttggtggt tttttttttt 1380
ttttcattca tactagaagt gtttttataa cgaaaatctg cactttataa ctctgcaggc 1440
catgcatgca atggtgattt acagccttgt ttacgtgtaa ttctccagg tgatttatcc 1500
caatttatgc aaagatccta ttttaaacag acacggagaa gtggttaaccg tttcctaaca 1560
gcagcaagaa tgcccccttc gtttgccctgg tgaaaagaac tgacattaac agcagcttgg 1620
aggcttcgag gaggtgggga cgtggcctga gctcgggacg gggggccagt gcgggttgtc 1680
ggagcgtggc tgccccggca tgtctctgta tttatcaata aatctcccgg ttgctctggg 1740
aaaaaaaaaa aaaaaa 1755

```

<210> 933

<211> 690

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (39)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (687)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (690)

<223> n equals a,t,g, or c

<400> 933

```

tttccacgcg tccgcccacg cgtccgccc ngegtccnng cagggcagag aatcccccca 60
attcctgcct gaaatctctg gcctcacccc tgctgggggt tggactgaaa accctcctcc 120
ccaatttggg ggggtgttgcc ccatcactgc ccagctcctc tgactgcccc cctgaattt 180
agggtggggg tactagtcac tgccaatgtg tgtatgggac ttgctggaaa acgggggatgc 240
ttgcccctct ccaggactat tgagcccaga gagagctgtc ctctcattgg gtgaactgat 300
tgaggaaggg tctattgtct ttttaaattg cacaatttta agggtttgag ggtacagtcc 360
cttaacctgc cacgggaggg ggcccccaaa ctttcttccc cccacacttc tggttttctg 420
tgtggagggg gagcagggat atctaagctg tggtgtgaaa gggtaggaga gatgctggag 480
gtgggggtgc tgtgttctag accccccata ttatcccagt gtcccctgcc cccctcttcc 540
cccaccccat gcccccaatt ctgtggcgca tccagattgt gaaaatgtac aataaatgtg 600
taatgagtaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 660

```

611

aaaaaaaaaa aaaaaaaaaa aaaaaanttn

690

<210> 934

<211> 1711

<212> DNA

<213> Homo sapiens

<400> 934

```

cgagatgtac cggtacagcg aggacgagga ctctggagggc gaagagaaga gcgatgggga 60
gttgggtggtg ctacacagact gatccccggt ggggtgggccc ggcccccttct cctctgggga 120
agaccttgtc ccaactcgat gggcacagcc agccaacctc agactatggt ggtacttgga 180
cttggttcgtg cccagagat gggcaaagct gtgcacttgc agatacatte atgaggggag 240
aggcgccctc ctttcttgag gagctgttgg cctgggtggg caggaactgc agtatggyca 300
tgggctgagc aggtctgagca cctcagcctt tagggcttat ggccagggga cactgtatga 360
ctctctctctc ctgcaggtgt ctatccacct ggggtatggc atctaccgac ctgtctccct 420
ggggtcacat gctttgtttc cattcttgtc ctggctggac cagccactgt gggaccaaca 480
cccctyccac actccccag actgctcgtc tatcaccagg atcgctttgt actttgtgca 540
aaagggctctg gctgtccctt gctgttttca tctctgcaag cctattgtgc ctctggctgc 600
tgtatgtgtg cgcgtgcacg tgtgtgtgtt tcatctgkct attcactgca caagatatat 660
awtgagtgcc cactacgtgc caggcactgt tgctgagttc ctgtgggtgt gtctctcgat 720
gccactcctg cttctctggg ggcctctttc tgtgtctctc tttgtcccca aattgctacc 780
tctttgtcag tctgggtgtc tcaggttctg tgtgtccttg tgtgcatttc tgtctctctc 840
tgtctctgtc tctctgcaag gccctctatt tctctctttc ttggtgtctg tcctttgccc 900
cctgtgccct ctggattctc tgggtctatg tagggccctg gtctgccctg gctcatcagc 960
cttcttgacc tctctctgcc ctccccctca ctccctcctg ctctgcagtc ggttcccacg 1020
gagccatttt tagctctgat cagcatggga atgtgcctcg gcctccaagg ggctttgtcc 1080
tggtgcccc cccctgggtc ccaacctgat ccacagagg agttgggaca ggaggattga 1140
tggtgtctcc ctctctgcca gcgtcagarg ccctggagag gggctgtcca tggcagctgg 1200
tctttatttc tccctcatga gcacaggggtc ggggggggtcc ccattcttgg aagaggttga 1260
gaagactcct gggtctcage ctctccacc cagccctgcc cctcacctgc ctgccctccc 1320
ctccccact ctatactagg gactggatct cagcctctga tcagtttcac aaagtttgtt 1380
ccctaaggaa atcaaatccc attgtcacct aactctgaag atctaaatag cccttggate 1440
agtaygggaa ccccaaatyc cacagggcca gatgtggagt ctgtgtctgc ccccgctctc 1500
tctccatcct caaagcccc acttctctcc aggtctgttc tttttttatg actgtaaaaca 1560
tagatagtgc tttattttgt taataataag ataatgatga gtaacttaac cagcacattt 1620
ctcctgttta cactcggggg atttttttgt tttctgatga cataataaag acagatcatt 1680
tcaraaaaaa aaaaaaaaaa aaaaaaaaaa g 1711

```

<210> 935

<211> 870

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

<223> n equals a,t,g, or c

<400> 935

```

tgaatctttc attcttacct gaataatttc acactctcca ttactctngg tctctctaag 60
gtctctctgtg gagagtgaat atttccatcg cacttacttg ctactttcaa tgtttctcaat 120

```

612

```

gtcctattgg actcactagg gcttagctct gtggttgaca catagrtatg cagmttttca 180
aatgtctgga atgtgttact ctactacatg ttttttgaaa tggaaacaga tggaatgact 240
ggctactgta ataatactac agcagctcca taatgcatga aatcctaaaa agtatgtaat 300
attataagta tcttttcaat acaggtttca ttgctattat tcatcagttt ccgtttagat 360
tacctgttcc gatttaataa cctttgataa atttgaaaaa tttgtctttc aaacagagcc 420
tgtagtagtatt aatgaagaaa atgagggatt tgaacataac acacaagtta gaaatcaagg 480
aattatagct ttgagttacc gtgactggga ggtaaagctc tgcctgttgc ccctgcatag 540
ttctgactct gccttcaactt gcagtaagcc cagtgcctaa atgttcatta ttgtctgcca 600
ggagattgtg aagacctttg agatttcaga gcctgtgatt actccaagtc agaggcagca 660
gaagccaagt gcttgatgct agctgaagga ctcaaagga tagtgaagtc caaaacggaa 720
agcggcatgt attgtacata ttgtatgatt caacatTTTT aaaggcagat tgTTTTtagt 780
aaaatgtagc ttttgatagt taataaaattt gtcatggttg tctttgatta aaggaaactc 840
accgccatat tcacaaaaaa aaaaaaaaaa 870

```

<210> 936

<211> 443

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (29)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (403)

<223> n equals a,t,g, or c

<400> 936

```

aagggaatct taaatgggaa attcgtcant gccctaccgg tccggaattc ccgggtcgac 60
ccacgcgtcc tagtttcaat kaactcgaat gcggctgagt gcctgagagc acctgttgct 120
gtgggtatca tcaccgtgtg tgttttctgt cttctcatcc acttttcttt gtgcagtctg 180
cacacacacc attaaaggct gatgacagca tttttacgaa ttgcaaacag aggccagcgc 240
ggtggctccc agcacttttg gaggccgagg cgggtggatc acgaggtcag gagttcgaga 300
acagcctggc caagatggtg aagccccgtc tctactgaaa atgcaaagat tagctgggtg 360
tggtggcatg cccctgtgg tcccagctac tcaggaggct gangcagaga attgcttaaa 420
aaccggggag gtggaagttg cag 443

```

<210> 937

<211> 490

<212> DNA

<213> Homo sapiens

<400> 937

```

agctggagag gaagggatga aaccagctgc tgttgcaaag gcwgcttgct attgatagaa 60
ggactcacgg gcttggattg attaagacta aacatggagt tggcaaactt tcttcaagta 120
ttgagttctg ttcaatgcat tggacatgtg atttaaggga aaagtgtgaa tgcttataga 180
tgatgaaaac ctggtgggct gcagagccca gtttagaaga agtgagttgg gggttgggga 240
cagatttggg ggtgggtattt cccaactgtt tcctccccta aattcagagg aatgcagcta 300
tgccagaagc cagagaagag ccactcgtag cttctgcttt ggggacaact ggtcagttga 360

```

613

```

aagtcccagg agttccctttg tggctttctg tatacttttg cctgggttaa gtctgtggct 420
waaaaatagt cgaacctttc ttgagaactc tgtaacaaag tatgtttttg attaaaagag 480
aaagccaact                                         490

```

<210> 938

<211> 1165

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (10)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (15)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (17)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (23)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (31)

<223> n equals a,t,g, or c

<400> 938

```

gacagtcacn gtacngnaat tcnggccagt ncgacgetgc aagggggacg cgggtcggac 60
gcgtccggct gtggaagaga gcggcgggcg ctcacaacat gcacagcctg ggcagcgctg 120
cgctgtgcc tactacactg gcacaagtgg atagagaaaa gatctatcag tggatcaatg 180
agctgtccag tcttgagact agggaaaatg ctttgctgga gctaagtaag aagcgagaat 240
ctgttcctga ccttgcaccc atgctgtggc attcatttgg tactattgca gcacttttac 300
aggaaattgt aaatatattat ccatctatca acccaccac cttgacagca caccagtcta 360
acagagtttg caatgctctg gcattactgc aatgtgtagc atcacatcca gaaaccaggt 420
cagcgtttct cgcagcacac atcccacttt ttttgtacce ctttttgca actgtcagca 480
aaacacgtcc ctttgagtat ctccggctca ccagccttgg agttattggg gccctgggtga 540
aaacagatga acaagaagta atcaactttt tattaacaac agaaattatc cctttatgtt 600
tgcaattat ggaatctgga agtgaacttt ctaaaacagt tgccacattc atcctccaga 660
agatcttggt agatgacact ggtttggett atatatgtca gacgtatgag cgtttctccc 720
atgttgccat gatcttgggt aagatgggtc tgcagctatc caaagagcct tctgcccgtc 780
tgctgaagca tgtagtgaga tgttaccttc gactttcaga taaccccagg ttttcagatt 840
tgactttctg ctgggtcatct tttcaaagaa aatgaaacgt ttaaaagttc atctgataat 900
actgctacca tagttttgtt ttcactgctc atctcttatt aagggtttta accataaaaac 960

```

614

```

tgaagcaatt tctgtaaaga cacaaattga taacttagta tagaattaaa attcattaag 1020
ttatcataag ttgatgata tccttggttaa tgtactgatt ttgaattat tttatttgcc 1080
ataatccata tatttctaac atgagtattt tgacagtatt taataaatca gaaagctggt 1140
tgaatggaag taaaaaaaaa aaaaaa 1165

```

```

<210> 939
<211> 448
<212> DNA
<213> Homo sapiens

```

```

<400> 939
tccgtctcct agtgtccgga atcggctgtc agctccctgg ctgttagtac cttctttccc 60
ggagtcctgg tccacgagtt ggatttactg ctgtcgcggg tgggcctcac gccattccct 120
gtccctcggc cccctgagtg agtccggtct cccggcgaaa gtgagcgagg tttgcccgga 180
gcgcgcacga ggggaaaatg ctaaaaaaaaa agactgggtgc gaggaagaag gctgagaacc 240
gccgagaacg tgaaaaacaa ctaagagcat caagaagcac tatagattta gctaaacatc 300
catgtaatgc ctcaatggta tcagcttttt ttgatatcag ttggtagttg gaaaaactat 360
atactatttt atctgacgta tacctgaata aaatttttagt gaagacagtg ttttttgga 420
ttatagtttg ttggtgaatt tagtatct 448

```

```

<210> 940
<211> 932
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (897)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (929)
<223> n equals a,t,g, or c

```

```

<400> 940
gagagtattc agcacataaa tgttcttaaa cccatcaacc tactttcaca gcaaatgaag 60
ccaggcatga aaagacaaaag gagtttatac agagaaatcc tcttcttatac attagtgtct 120
ctaggaagag agaataattga tattgaggca tttgacaatg aatatggaat tgcatacaat 180
agtctgtctt cagagattct tgaaagggtg cagaaaaattg atgctccacc aagtgccagt 240
gtcgagtggg gcaggaagtg ttttgagcgg cctctcattt aaatagagat tcaactagaat 300
gttgacacac aaggcttgagg gattagattt catctggaaa cattcaagtt tttttttcca 360
aatcgtaaga actggtgaat acggaattga agtaactctt ggggacaata tataatgaat 420
tatgattcat attgcattac cttgaaatat gaagtgccat ttgaatgtcc cagggccttat 480
taatattgaa gattttcaac ccctgaactg cttttctgcc tctgtggaaa actacttttg 540
gattcttcag tatttgtagt agtttgatag aaataatgag gaaccatatt cattctaggc 600
attgtttata tttgaagtta ctgagtttga ggaatggcaa attaaatttg cctaaccctcc 660
aaaacaaaatg aaatatctca attataaaaag caacatggcc gggcacgggtg gctcaggcct 720
gttaatccca gcactttggg aggctgagca aggtgggtgg atcacttgag gccaggagtt 780
cgagaccagc ctggccaaca cgggtgagacc ctgtctttac taaaaatata aaaattagcc 840
aggcgcacca ctgtagtccc agctacttca ggctgaggca ggagaatcgc ttgaacngag 900

```

615

gcagagggtta catggagtgg tgatcacgnc at

932

<210> 941

<211> 735

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (640)

<223> n equals a,t,g, or c

<400> 941

```

gtggcacatg aaattttctca gatcactaat gatcttgcac agattattat tcctaaagat 60
aactcatctc tcttgaaaag gttggcatgt atagctgcat ttttttgtgg actcctcatc 120
ttatcatcca ttcaagataa atcaaaacat taggttccaa aaattctaaa aaacctaaac 180
tcttcagggt accttttgtgt gtctctagaa gagaaaagca tctatctgga gatataaatg 240
tgtatgtaaa tataaacggt tgtggcaaga ggacagttct gtgacatctg ttgaacatat 300
gtggttgtat atattggaaa tgtacatatc caatatgaaa tactaaraca aacaaacaam 360
caaaaaacca gaatgcattg tataggattg catgtgaagt cttttctact gaatctatat 420
ttccatttgt aagtgatattt aagttaacat atgaaggcag ggaaatgatt acctttccag 480
taaaaagtat agataattta attaacttag tgacaccacc aagtgttttg aatataacta 540
aatttgtggg aataagactg tctgcacctg tattcattgt ggaacttctt ctttcmittg 600
aaactttctt actcaagaat gacggcagta ttgttttctn atatgtgcca atgaaagtgg 660
gatgataaac agtatgcctt taatttataa tgtgtccttg ttcttgaatg ttgttttctg 720
gaaatgaatt ttctt                                     735

```

<210> 942

<211> 858

<212> DNA

<213> Homo sapiens

<400> 942

```

ggcacgagtg cgtctccagc gtctccagcc gtagtctgaa gggagcaggg tggcgactct 60
ggtgacaggg cgatgccagt cctccactc cagaggagaa cgaaaccacg acaaccagcg 120
ccttcaccat ccaggagtac tttgccaaagc ggatggcagc actgaagaac aagccccagg 180
ttccagttcc aggggtctgac atttctgaga cgcagggtgga acgtaaaagg gggaagaaaa 240
gaaataaaga ggccacaggt aaagatgtgg aaagttacct ccagcctaag gccaaagaggc 300
acacggaggg aaagcccagc agggccgagg cccagcgagc gagtggccaa gaagaagagc 360
gcgccagcag aagagcagct cagaggcccc tgctgggacc agagtcccaa ggctctgtct 420
caggatgcag gggaccatgt gcagccgctt gagggccggg acttcacctt gaagcccaaa 480
aagaggagag ggaagaaaaa gctgcaaaaa ccagtagaga tagcagagga cgctacacta 540
gaagaaacgc tagtgaaaaa gaagaagaag aaagattcca aatgaatcct tcccagccgg 600
ggccttccga ccaactcagct gtcaggggcac tgcgggggca gacacctctg gcctgaagtc 660
acagcagagt tcaccccaga gcgcctgggc gcatcttgtg gcatgcccat gggtgccga 720
gtcctgccct ctgcgccat ttcccccaag ttacattccc aggaggacct ttttaatgtt 780
ctcaatcgtg gctctcagac acaataaat ttttttgtaa actctgaaaa aaaaaaaaaa 840
aaaaaaaaaa aaaaaaaaaa                                     858

```

<210> 943

<211> 1345

616

<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (773)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (968)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1154)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1206)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1316)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1322)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1339)
<223> n equals a,t,g, or c

<400> 943
cccgtccaca atgcagcaga ctcttcccaa ggccacctag caagcaaggt tgatcggatc 60
atctaaactg gccgcctcct gaatatttca ctgaatcctg gcgttcattgt tgaagcagac 120
aaaatgagaa aggaggaggc cattgctcac ctctcaatag cttttttcgt tcaagttcta 180
tgtctttatc agctcttgcc tgtgatctta cccaattca accttgggag tgggaagaat 240
atgaacagat aacccttgcc ctaacagctc catcaaacct ccttgagagc aactacctag 300
gccaggctag tgagtgtctt gtgaggaagc tggtcagaag gttccctcaa ctccctcctg 360
gtcctcctgg aactgcaga aaagacttag gggatcccca gcagaggcca attgctctcc 420

617

```

ttccttcctt gccccaccag gaaaggaata acgtccacag acttgaagca gatagtgaag 480
tagatctgtg agagggttcta ggtacttagt gtgtagactt tgacgaatat ttctcaagtt 540
gggagccctt gttaaaaatg atgtttaagg gagtgggttg ggggaagatg aaggcatgga 600
ggaggaagaa gagaaggaag cccttgccat ataaaattca tgcagactaa acagtttccc 660
tgacagaata aataaagtgg atgctacccc actccagaat caaaagcaat ttaattaaag 720
tctcttaagt tgtaaagagt tttaaagtat ccgtgttgaa ggcgaatsct gcnaaatgca 780
gtgggtctga cgtcagctgc cgggcctggg ctgggaggcc atttgctatt ctgtttaagg 840
caggctggat tgtcttattt tgggaaccagc ttggtggggg gtttgctttg ctactgcttc 900
tgagccctga gcttcaaagg ctgaaattaa tggatgaaca aattgtgcgg ctctggccat 960
cccatgcngg gcaagcccat tgagggttat cattaagtaa agaaataaag agggggaaaa 1020
aagcctgcct gttccaaaaa cctcatcaga taatgacctc agtgattggg ttttcattac 1080
caaacagcat ccagagatta tcaaccata gaagaaggga ggggaaaaaa aaaaaaaa 1140
ggaaaagcaa ctgnccttct ctctctctct tctccttttt tttgcacatc tttcttttaa 1200
aactgncaga tcatttcaag tatttcaa atccaggaaaa cagcctggct gctgctggat 1260
ttgaagtgga atgggggcaa aaagccact ggctgacanc cgcagtccca aagggnntat 1320
tnaatcttaa aacttgcng gaata 1345

```

<210> 944

<211> 1829

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (601)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (918)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1411)

<223> n equals a,t,g, or c

<400> 944

```

gaattcggca cgagatttat tattatttaa ctctgcagt gagcaaatgt gagtaacatt 60
tgaatgaaaa taaattttca gcttatttac atgaggtaat aaacttgact ttatcaagta 120
attgtgggag tggggaataa acctcatctg gggatgggaa ataaacacca ctataaagaa 180
accactaaga tttgaatgcc ttgcttggtt taagtttggt gatgcaggta ttgcattgat 240
tatgcatcag ggaactggaa accaaggcat tcgttctttt aagaaaatag attcttaagc 300
ataggagtct catgttttaa gaactatttc taagtccaac taagatcgag tttttctgtc 360
tctattggca aktwtyaaga ggcataaact ttaaagaaaa agggaaaatg tgataaatta 420
atggaataga ctccataggc ttttattcca acttttatat gatgcaagtc tatgtgcttc 480
tgtctgactc acttatttct gtwatcaaga tgaactagtg aagggaattt ctctctcaat 540
gctaaattaa ttacatgcat tggggatagt catccagaga gaggggaagg gaccttctga 600
ngttgtcacy cagwaaataa ttgcctgagc tgagaatggc atgtgggtca cagaattggg 660
gtttctggat ttaggaaata ctctctattt tttttccact cctgctggct aagccaagaa 720
tggcaaatat gtgttcatgc tgctgcattc ccttccaggc ccataaggac gttggcaatc 780

```

618

```

cttcatagcc ttctcacagg cggaacctgg attaatTTaa gaaccctttt gtgcctggct 840
tttcaggaag ccagtaccaa tcaattgggtg ctggcatgaa gcatgaaact atttgccatc 900
tctgagttat gccagtanaa ttggcatgct tctggtttcc atgcatacca ctacctttca 960
tgggttttat tgtgcacaaa ctttgcacgc ctttagaatg atatacctac gcaggatatat 1020
aatttgtcac cctgatccaa aaagggkaag awgccmagac catagtgagc ctcttattag 1080
aaagctcttg gcttcagttt ttgacacttc cctgactctt tatattcacg ttatcataag 1140
ctgccaaaatt cttgactcta taaattgccc tttaacagct tattaggaat tccaactact 1200
gtattctagc accaactaca gcatattcag agcctctgca attcctaata gtacacttaa 1260
accaaataca tgggccagcc tgcactcttt aaaatacatt ttatgccttt acacttcgta 1320
ttaagttggg tgagaattat gttttaatct acactctatc ttgaattgtc ttacatttta 1380
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catcattgtc tcattgggct ttaggtttaa catgcctcat gatgacaaca acaaatgtaa 1560
agaagaagga gttaagagtc cccagcatgt catggctcca acactgaact tctacaccaa 1620
cccctggatg tggtcaaagt gtagtcgaaa atatatcact gagtttttag agtaagactt 1680
gaacattctt ttagcacaaa cttctagtgc ctggcctaca tgtagtgaac taattgtggg 1740
aaagacaata tgaagtcaaa cattcctttt gagttatttt tgttgacatt ccttgagaa 1800
ggcaaaaaaa aaaaaaaaaa aaaactcga 1829

```

<210> 945

<211> 388

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (337)

<223> n equals a,t,g, or c

<400> 945

```

aaaaaaaaaa aatatgaaaga aacttgccct ttacttttat atattcccat agtcacacac 60
ctagacctct gtttggccag attaccagat atgtatgcaa agagaatttg tagtgaaaac 120
tgtcgagtca tattcaaatc ctttctgtaa tgaaaagctt tttcctaata tctgttggaa 180
attgctcatt ggttaactac ttctgtaaaa gtatttgggt gaaattccag agttttatga 240
ggtgarggat aaaaagrtgg ctcaaggcct actaaagtca acctgcatca ttagtccctt 300
tcagaagaca rgrackggg ttwtgggaaa gattccngtt tkctgratct gctatkagtt 360
tctgctgcct cacttgcca acaatttt 388

```

<210> 946

<211> 637

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (11)

619

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (618)

<223> n equals a,t,g, or c

<400> 946

```

cctcactnaa  nggaacaaaa  gctggngctc  caccgcggtg  gcgggccgctc  tagaactagt  60
ggatcccccg  ggctgcagga  attcggcacg  agcggccgcc  tccatgaagc  ggaaaagcga  120
gcgggcggtcg  agctggggccg  ccgcgcccc  ctgctcgcg  cgctgctcgt  cgacctcgcc  180
gggtgtgaag  aagatccgca  gctccacgca  gcaagaccgc  cgccgcccggg  acccccagga  240
cgacgtgtac  ctggacatca  ccgatcgcc  ttgttttgcc  attctctaca  gcagacccaaa  300
gagtgcacat  aatgtacatt  atttcagcat  agataatgaa  cttgaatatg  agaactttcta  360
cgcgattttt  ggaccactca  atctggcaat  ggtttacaga  tattgttgca  agatcaataa  420
gaaattaaag  tccattacaa  tgtaaggaa  gaaaattgtt  ctttttactg  gctctgatca  480
gagaaaacaa  gcaaatgctg  ccttccttgt  tggatgctac  atgggtatat  atttggggag  540
aaccaccagaa  gaagcatata  gaatattaat  ctttggagag  acatcctata  ttcctttcag  600
agatgctgcc  tatggmangt  gcamtyctac  atwacc  637

```

<210> 947

<211> 753

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (746)

<223> n equals a,t,g, or c

<400> 947

```

ccacagtgcg  agccccggcg  ccccgaagcg  ggaaaaaggc  tgggtgccgc  cgtccccag  60
ctgcgcaacc  ctaggaactc  tcggcaaaaa  aaagagcatg  aggaatttga  agactgagag  120
atgagttgtg  tagcaccaac  attttctttc  tgectgacct  tcatacctga  tgaattaaaa  180
gcataggatg  tttggaagag  tgagataagg  gacacattga  aaacagagag  gcaatctgaa  240
ggctaccttg  acgcatctgc  aaagctccca  gattctgact  ttcacaagac  ttgctttctg  300
tttctggggc  tcgcctaaac  agactgccag  tcatccgaac  cgtggcagga  tggagatgtt  360
tgtgtaaggt  agactcaagt  ttgcaagact  caagaaggaa  accaccaaac  taatttwact  420
ttcacttaaa  ccgattgaa  accaagactt  gaagaattaa  aaactttgac  attaaccatt  480
gattcactcc  aatgaaataa  ttgtgttata  gccagaatca  tggtgaaatt  ggaacaaggc  540
ttttgatggg  atttttaatt  gagggactta  tattaaattg  gatattttct  ttaatgaaca  600
gcatgtggcc  aaaattctat  tttcattaaa  gtatattaag  catcatgaca  actcatatta  660
aacctgcaac  aaatgattaa  tgacatttag  agacttcaaa  tgtcatgaga  caccttaaat  720
attaagaatc  aaaaagaaca  cctcanagtt  gtg  753

```

<210> 948

620

<211> 912
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (757)
<223> n equals a,t,g, or c

<400> 948
gctcgtgccg aattcggcac gaggttagtt gccgaaatat actagttctc tgagggttaa 60
agaagtaaaa taccttttta aggttaaata tcactagaaa aatcagtgtt attacaaggg 120
aagaaatgaa ccagtttta gaatttgcca tcagtagcag tattaagcag tggttaatgt 180
cttaraagtc agacttcttt ttcaaggtct tcagaaccac acttgatttc tgttttgttg 240
cagctgtaat tgacacacac taggcagctg actccttgaa tatccagtgt gaccataaaa 300
atagtctgtt aataccggat cttaattttt atgttattca ttaagatttt aactatattc 360
agtacgtaat ttggagacaa actagcatca tcaaaactgc ctgtaaataa ggtgttttagt 420
ctttctataa aaacagaata gagcagttac ctaccagtta aaatatctta tatgaagaaa 480
atagaataaa gatccagtca tatatgtaaa taagatgtac tgattgtacg taaatgaaaa 540
atggaccctt taaaaattat ttttacctga agcttgtcat aattttttta aagcaaatat 600
atatatgggtg atgggtacttt tcaaagtgtg tattagtgggt gatcacctca aacataaacc 660
tctgttgtga atcatttgtg tccttttcaa ctgtctttca gaggaaaggt aaaaaatcat 720
taaacctgaa attcatttgt aaaatcaa atttgtnagc agtaactcaa gctcatgggt 780
ctcaagcaga aaaaggtttg ggargactta aaaatggagt ccaggttgta catgggagac 840
tgcttaactc ccttggggta ggcattgggc ttgccttcag caaaccagtg catttcccca 900
tgtcttagtt tc 912

<210> 949
<211> 440
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (392)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (405)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (416)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (435)
<223> n equals a,t,g, or c

621

<400> 949

```
gcagtgcagcc gagatttcac cagtgcactc cagcctgggt gacagagcaa gactccatct 60
caaaaaaaaa ataaataaaa aaaaatgcag ctgcaggagt gaggcgcttg gaggtacctt 120
gacccaaaga gcagggcaga ggggtggcagt ggcacatagg caagtgtctt tgcattgacat 180
cttctcagag cttcacaata atgtcaggga ccacatttaa tgcttttttaa tctcccatag 240
tgcttggtc acaggaagtgc ctcagatatg ttaagtaata aaaagttaat gtgggtgggtg 300
cagtggctca cgctgtaat cccagcactt tgggaggctg aggtgagtgg attacaaggt 360
caggagtccc agaccagcct ggctaatatg gngaaacctc ggctntacta aaaatnccaa 420
aattactggc atggnggtgc                                     440
```

<210> 950

<211> 1006

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (408)

<223> n equals a,t,g, or c

<400> 950

```
atttttcaaaa ggaaactaat ttattttttct ataaaatatt gcaaaggaat cgaatacatt 60
tttatttctat gtaaataata atataatttt cacatttagg aggcaatagc aaatctggga 120
agcagttatt ctaagttgga agagcattat cccaatgcat tgaaaacatt tgatgactat 180
ttttttatgtc ttctttatatt tgatgattat aataatgttc taactgggtg gccttcgttt 240
ttcactctag tcagtccatc ttgtttacta tgtcaattgt tctccaaaaa gtagaaatgt 300
cattgttttg gggccataka acatttcaga agctttccag tatctatgca gtaacagtcc 360
aaacccctca acataacaca ttacacctg caagtatggc cccaaatntt caagtggctt 420
ctgtcactac tccatagtag ataccctttg ttacagctgt ttcacaaata caggttgaat 480
atcccttattc taaaatgttt gggactamaa gtttcagatt tcagatatgt ttggattttg 540
gaatattttgt acatgtataa tgagrtactc ttagagttgg gacccaagtc taaacaaaat 600
tcattttatgt ttcatatata ccttatacac ataacctgaa ggtaatttat ttttcccttg 660
ggaacactga atagactata tgttgtgcac ctacattttg actgtgacct atcacatgaa 720
gtcagggtgtg gaattttcca tttgtggcat catgtcagta ctcaaaaagt tttggatttt 780
ggatttttgaa ttttcagatt agagatgtc agcctaatag caaatgttcc catgtttatac 840
acctcaacct cccattccca ttggctggaa catctctgct tatattaaat gtctttttatg 900
tgaaatctgt gttctcatag cctttttgtat agttctctac catctcatgg ctcacattgt 960
attgtactta ttgattmaa tatctggatc atctactgtg aaaaaa 1006
```

<210> 951

<211> 1302

<212> DNA

<213> Homo sapiens

<400> 951

```
aaagaaccaa tgcaagtttg gtttctatcc agaaaaaata caggaacaga ggaaacaaag 60
caggatgatg actgaatctt ggattatggg gtgaagagga gtacagacta ggttccagtt 120
ttctcctaac acgtgccaaag cccaggagca gttcttccct atggatacag attttctttt 180
gtccttgctc attaccccaa gactttcttc tagatatatc tctcactatc cgttattcaa 240
ccttagctct gctttctatt acttttttagg ctttagtata ttatctaaag tttggctttt 300
```

622

```

gatgtggatg atgtgagctt catgtgtctt aaaatctact acaagcatta cctaacatgg 360
tgatctgcaa gtagtaggca cccaataaat atttgttgaa tttagttaaa tgaaactgaa 420
cagtgttttg ccatgtgtat atttatatca tgttttaccaa atctgttttag tgttccacat 480
atatgtatat gtatatTTTA atgactataa tgtaataaag tttatatcat gttgggtgat 540
atcattatag aaatcatttt ctaaaggagt gaattctaag ttttagggga aaaaatgcaa 600
tttattttca gactcccaaa gtaagaatta acatatcatg ctaagaaaat agtgactatt 660
ttgaagtatg ctacttccct ttcagaaata tagaatacac gtttctgtta ttaaagtatt 720
tgattactaa ttcaaactcat atggcaatta taattcttct aaaatgctat catttgtaac 780
tgtatcccct gtattaaatc tcattaacca caggcagctg ttacagaaag ctgcattgtt 840
tcacattgag ctgttacatt agttcaggct aaatgttggg mgctccaacc acatccaaga 900
ataaatctgg aaacacactg ctgggatact gctgttagag cccttcttgg ccttgatttc 960
ccagaaatga gctccctttc cttagcttag aagaatgtga ttatatccag gacatcatgt 1020
tcagaaaact tagtttactt tcagcataga atgcattact gttggaataa ttggcctcta 1080
gctcttaaat gtctctgata acttattaat atctatcttt ataaaataga gtgcaactac 1140
ttttgtgtaa aaatgtttgc ctttaaattt agtatttcat atcagcacat cgatatatgt 1200
ataaatgttc catgttaatg tgtaaaagag tctgtaataa attatttttt tcacgtgtct 1260
ctatacagtt tttatttcmA taaaaatatt aacattaaaa aa 1302

```

<210> 952

<211> 471

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (65)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (393)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (442)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (471)

<223> n equals a,t,g, or c

<400> 952

```

ctgtaacctt ttcacgcgct atctgctaaa aatgttgccg atgtgaagta aacatggatg 60
tagtnacctg acgtgccagg cgaggagtga gtgtgaaagc gragaagsag gaaactgccg 120
cgaccatgaa agackttgcc ctcaaggsaa aagtctctac agcgaccgtc tcccagagcat 180
taatgaatcc cgataaaagtc tcccaggcca cccgtaatcg gggtgaaaaa gcggccccggg 240
aagtgggtta tttaccgcag cctatggggc gcaacgtcaa gcgtaatgaa tcccgcacca 300
ttctgggtgat tgtccccgat atctgcgac ccttctttag cgaaattatt cgcggtatcg 360
aagttacggc ggcaaatcac ggatatctgg tgntgattgg cgactgtgcg catcaaaatc 420

```

623

agcaggaaaa aacctttatc gntttgatca tcaccaagca aattgattgg n

471

<210> 953

<211> 918

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (862)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (871)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (881)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (903)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (916)

<223> n equals a,t,g, or c

<400> 953

```

cggcacgcgt gggcctactt tcacgcttcc tccccctccc ctccctccctt atcccttcgc 60
tttcgctctt ttccgctcgag gccgaccctt gagttgtgag tctgggggtct ggttgggtgaa 120
aaagagccct tgaagctgga agacgggaga ggacaaaagc atgtcttccc ttccctgggtg 180
cattggtttg gatgcagcaa cagctacagt ggagtctgaa gagattgcag agctgcaaca 240
ggcagtgggt gaggaactgg gtatctctat ggaggaactt cggcatttca tcgatgagga 300
actggagaag atggattgtg tacagcaacg caagaagcag ctagcagagt tagagacatg 360
ggtaatacag aaagaatctg aggtggctca cggtgaccaa ctctttgatg atgcatccag 420
ggcagtgact aattgtgagt ctttgggtgaa ggactttctac tccaagctgg gactacaata 480
ccgggacagt agctctgagg acgaatcttc ccggcctaca gaaataattg agattcctga 540
tgaagatgat gatgtcctca gtattgattc aggtgatgct gggagcagaa ctccaaaaga 600
ccagaagctc cgtgaagcta tggctgcctt aagaaagtca gctcaagatg ttcagaagtt 660
catggatgct gtcaacaaga agagcagttc ccaggatctg cataaaggaa ccttgagtca 720
gatgtctgga gaactaagca aagatgggtga cctgatagtc agcatgcgaa ttctgggcaa 780
gaagagaact aagacttggc acaaaggccc cttattgcc a tycagacagt tggaccaagg 840
aagcacgcaa gcgccggtga anagcgctt ncaggcccaa naaaggaagg agaattcattt 900
aangactttt attccnaa

```

918

<210> 954

624

<211> 1683
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (344)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1604)
<223> n equals a,t,g, or c

<400> 954
cgctnttccc cccacacccc gtgtggccag ggatccccgc atggcccatc ttagaaactc 60
aactatttgg tggatgctaa acacttcaact tcaggcaatc ccaaggcatt tgctccaggg 120
tatccgatga gattacagct gttaagcttg ctttccattt cataacttgc tgtgcagcta 180
gttaccaccc ccatgctgaa gagtaaagca aagtgccgtg gttcggcagt ggaatccacc 240
cccagcactc tgctcgcaact ggagcgttca agtccggtta tgtgagaaca gactaggact 300
ctcttgctgc ctctaattgc atttcaactgt caccctcccc agtnttctga tgggtgtgcat 360
gtgaggagaa gatgagggtta ggactgagaa gtgcagaagt tgggaacagt gtaaggctgt 420
tttaaaaataa gatgttttgt ttttaataata tgctcctggc acaaagctag gagtaaatgt 480
gactccaaag ggagttcagt taatctctga aatgcacaaa acctagctat tttctccctc 540
tcatcacagt ctgagtctgg tccattgcta cccaattct ctggggacat aaaaccaggc 600
tggaaggga ccaggaagt tgaaatagt acatatcat cactagtccc aagggtctag 660
gaatagttag tttattctgg aaggaactgg gaagcttagt ctaattagt cctggggatg 720
acctatgcaa tcacaccgt tatgaccatc ctagagaggg cctgagcac cagcttgatc 780
ttagggattt ccaaagtaac ctgctttttg cctggatagg gttaaaatag acctttcttg 840
cctatccttg ccttaaccta tctgcctgag gttggcctga gattgtgagt caacgacttt 900
gctatctttt cctcagtgtt gaactttcat taagaaataa agtcctagct tcttacagag 960
aggggtccaa atggtgaatg ctcatectgc ctggattcaa ggrattagct cagagrttg 1020
cccctagctt ttctgcttt gttagggacag caaaagggga aaatttgctg cagaaaattc 1080
caaaagattg ctgtagctct cacagggaag tggtaaagat cagctaaacc tgggttgagg 1140
tgctttctgc ccagtgggtc ttggcataag tagattaatc ctgctctttt aagaaaaggc 1200
aacttattca ggcagtctgg aaagggggtt ctcagaaaac tcagtttctt tattccttct 1260
tttctcccaa ctactgttac tggttataga ggtctttgga ctctaaagac caatgtttgg 1320
ccactaactg gactaatatg tatctttctg tgatttcatc atagaggctt gttttgtgag 1380
ggtttggggg gcagaaaact ttgattaaat cttaatggga ggctgggtga cctggattat 1440
ctacagttag cagacttaaa tgggaacagaa gtttatgtgt ccaaagatg gaatcattaa 1500
acctgagtga cttgacctgt gtggttcctt aatagtatct atatatctag acaaaaatag 1560
attgtgaatg taaatggtga atgaaaagga tggaaataat gttntcatat gttaatccat 1620
gagcttgaat ccaggggagga atacctcggg gctttaacca ccttagttat aacacatttc 1680
tta 1683

<210> 955

625

<211> 119
<212> DNA
<213> Homo sapiens

<400> 955
acctcctcgc cctgggctgc cccgcctggg tctgggggac ctgaacctcc tcgmcctggg 60
ctgccccgac tgggtctggg ggacctgaat ctctcacc caggctgggt 119

<210> 956
<211> 351
<212> DNA
<213> Homo sapiens

<400> 956
aaaactctgt aggctgatta atgaagatgt gaatgagcag gttatgcagg tattaggacc 60
tgaagacctc cagagcatta tctacaaatt sgaagaacac gaggaatttt tcccagcatt 120
tcaggcattt actaatgata tacttgaaat cttagaaatt gatgacytgg atgccattgt 180
acctgcagta aagaaattaa aagtactttc atactgaaaa caaatcaa atcatttttact 240
gtgtaaattg tattcttaac attttgtatt ttgtaggatt gatcttattt tgagacaagg 300
gttgtaaaat gtatttgctc tcagaattca tccccttctt agtattagggt c 351

<210> 957
<211> 375
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (299)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (361)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (374)
<223> n equals a,t,g, or c

<400> 957
aattcggcac gagcttacca aaagtatcta atggcccaat gccttcaa acagtttttt 60
caattactat attttaagtt atacattcaa gttaaaatat acctaggaca ttctgattat 120
agcctaggct ttagttctat ccagagaaca agaaaaactt tttgaaaaag gtaaggaatc 180
gatcccatat ctgatcagga cccataggca tgccagacat gggcatgggg ttcatgttca 240
tctgtcccat gtgaccactg ctgccattca tgtgcacat actatacact gcaggattnc 300
cctgggtggg aaacttgctg ctgggggaaag gagtttaagt aaacaaatgg tatattacct 360
ntggagcact tagng 375

<210> 958

626

\<211> 557

<212> DNA

<213> Homo sapiens

<400> 958

```

cagcagacaa gaatgagatt ttgttttctg aattcaacat caactataat aatgagctgc 60
cgatgtatag gaaagggact gtgttgatat ggcagaaggt ggatgaagtg atgacaaaag 120
aaattaagct gccaacagaa atggaaggaa aaaagatggc agtgaccgg accaggacaa 180
agccagtgcc cttgcaactgc gatatcatcg gggatgcttt ctggaaggaa catccagaga 240
ttctagatga agacagctga cccttttgcg cttcagttct ggtgtgctta accatgcaag 300
ccctcccacc tcccagggct ccttgccctta ggtggctgta gcatccctac caccaggac 360
actggtgcca atgacacaac tcaagttggg aggggaacag ggaaggaagg gatggatggg 420
ggtggtgtat cttactctgt ttaagcagaa caccttgttt gcggtgttgg aacatggttc 480
ctttggcaga agtgcttttt ttttaatcgc agtactattt ttataaagcm agaactattc 540
catgccctgg gggatga                                     557

```

<210> 959

<211> 346

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (274)

<223> n equals a,t,g, or c

<400> 959

```

ggcacaggaa tgacttcaaa ggggtgtgag ccaggcctct tcccacacca gacttcatga 60
accatgcctg gtattgtgca tgtttttgtg agcagccgtg aatagggctg ggggagagag 120
atgttcagcc aagaaagtct aaaatagaaa gggaaatgttc agttataaca aaacaaattt 180
ttgtaattag agtgctgggt tgtgctcagc atcattgggg ttaaagtgtg agcagtggct 240
tacacttgta atcccagcac tttggggaaa ctgnggtggg gcggatcctt tgaggtccag 300
gagttcgagg ccaccctggg gcaacatggt ggaactccca tcttct 346

```

<210> 960

<211> 774

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> misc feature

627

<222> (13)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (750)

<223> n equals a,t,g, or c

<400> 960

```

gntnaaatcc ctncccaagg tatgtaatca gaatcccatc atgaggcaca cccaaatgag 60
ggacattcta caaaataact accttgcaat cttcatagag tgaagattat gaaagtcaag 120
gaataatgag gaactgttcc agactgaggg aaagaaaata ttgacaagc agatgggtatt 180
cgtgcttctg aactgaattc ttttgctcta ataaaagaca ttttgggcac agttttctga 240
ttctgatgaw tgkawtgkga wtatgtaaga gaawgtagga aaagkattca ggggtagtgt 300
gggacaggtc agcaactcac tctgaaatgg ttcaggaaaa tcagttcttt atgctgtatt 360
ttcaatcctt gtataaatcc gtgtttgttt caaagattaa aaaaagarar aaatggagg 420
ggaaaatacc tggtaggcaa atgaacaaaa gacatgaata ggcaattcat ttaaaaatta 480
aaataggtct taaaatattt aaaaaaattc agcatcactg ataattagag aaatgcaaat 540
taaaactgca atgaaatatt ctcatctgtc atgagaaggt tgtggctgag ttaagagatt 600
ggcaaatccc caccaccctt gcccaaaagc aactgtaaat gccattctgt aaacaaaagg 660
aatcaaggaa cccttggtga tgtgactgat ttcagactgg ggcagataaa gtacaagctg 720
actcagaaaa gtgaagttgt gccagaaggn taaggagtg gctcaaaaaa tgaa 774

```

<210> 961

<211> 901

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (774)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (831)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (867)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (888)

<223> n equals a,t,g, or c

<400> 961

```

ggcacgagct tagtaccaaa tcctctgttt gggattgagc gctgctcctg gttaatcatt 60
cctactacaa aaaaaataa ctcccagggc tagttaaat gtaaaccaag gctcagcagt 120

```

628

```

ctcacaacac atggaccaga ggtgacacac agccatttcc tttgccatgt ggcccagttg 180
ctgctgccat gcctccattt ccacactgga tgcctacggc agtgagattt cactgccggg 240
gtaagagttc agcctggatg attttatagc tctgttccta gcacttctca tcatccttcc 300
agcccagaat cagcgggtcat tctgcatatt cccaccaacc ctctacccc aaacacttca 360
gtgtacctca ttttaagagt tgctgatccc tgattctagg acgtttttac ccatagtctt 420
tgtctttcca aaatctgaaa ttcttttttt tgctcagaac tgggtagcca agggttattt 480
tatttttatc tttaaaataa tcaaggcagt cgctagagtt tctccttggt aatagatcac 540
tctagcattt taatgaaaaa gaaaaaaatc tttctggggt atgttgatc atagtaatgg 600
ctcagtaacc acatatatttgc tcttttccat gtcactgatt ctttcatatg agactatttg 660
gcttgactac cctgtatatt gtgtagaaat caaagttctt atctgtacat ttctgggtcca 720
atacctgtct tattagttgt ctttccccac taaagtttgc aaaacagaaa atgntactat 780
ttctgggtat ttaatgacaa tgaaagggtt gggtcattat tcatagtgc ntaaccgata 840
aggagggggg ctcaagggtg cttttgnggt tcttctaagc tttggtcntg gattttaaga 900
c 901

```

<210> 962

<211> 1452

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<400> 962

```

cangnggaa gcttaagacc aacttttgtt tgagtacaca agtgatattt acattttcat 60
atactagtga tatgcctgtt gcatacttgg caaaataaaa ctgagattcc gtctcaaaaa 120
aaaaaagaaa aggaaaaaaa aatagcatta tacctcttcc ttgtctcaac cgccatgaaa 180
attctgaaca ctccaaattc agttgaataa tccaaaacaa aattttataag tataaaataa 240
ttttacttct tatagtaata gtatacttta aaaagcctca ggggtatatta tcttctaaac 300
agctacaatt cagtgcagct acattaacca actatgttct ctagttgaga acaactaggc 360
ctatttcact gctgtgtagc ctcaagtgcct aacatgggtg ccaaataaat attcgtagaa 420
ttacactgaa ttgtaaaaaac cattcgtttt tgtttacaat tgccaaaaat ctcaaaaggc 480
cctgtattta tgtaattctt tgaaattatt attttatttt gattttctcag ttattgactg 540
gctgggtgtg acttagtaca taagtactca atattataaa aacctcaaat aattgacttg 600
attttacaca acatccttcc cttttctaca agttaatttt tttaaaaatc atttgggtta 660
tctcctaaat aggttatatt ttattgcttc tagaaacaat gtttcaaaaat atatgtgcat 720
tatcagtaat aatttgatata aatatttccc acaacaattt tcataatttt caaagactaa 780
tttcttgact gaagatattt tgctagggaa gtgaaacttt aaaattttgt agatttttaa 840
aaatattgtt gaatggtgtc atgcaaagga tttatatagt gtgtctccac taactgtgta 900
cagatcagga cacatatatt tagacatcta agtctgtagc ttaaatggag gttactcttc 960
catcatctag aattgtttac ttagtaattg ttgtttcttt tattattata gacttactat 1020
cagttttatt ttgccaagta tgcaacaggy atatcactag tatatgaaaa tgtaaatatc 1080
acttggtgac tcaaacaaaa gttgggtctta agcttccacc ttgagcagcc ttggaaacct 1140
aacctgcctc ttttagcata atcacatttt ctaaattgatt ttctttgttc ctgaaaaagt 1200

```

629

```

gatttgtatt agttttacat ttgttttttg gaagattata tttgtatatg tatcatcata 1260
aaatatattaa ataaaaagta tcttttagagt gaccctttcc ccatagattt ttatttctct 1320
attatatattt acaaggaata taactcagtt tgttaggagg agtgccttaa aggcaggtgt 1380
ttcttggact ttgttattta attagatctg cttgcaataa aaaaagtta cggttaaaaa 1440
aaaaaaaaaa aa                                     1452

```

```

<210> 963
<211> 423
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (421)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

```

```

<400> 963
tgaatttttt atttctgatt tcatgttttt aatatccaat taactcctta ttttggtaat 60
gtttcttttt tatagtattc caatcagtc gattcactt aaaaaaaaaa aacagaaata 120
actccagata ttttaagcaa aaagggattt ggtggaagg gttgactata gtaatgtcag 180
gaaggctggg tgagccaaa agaaaggagat gctgcccaa gatcaggaag ctcccagtgc 240
ccacccccac tgctgctctg ctggaagcat agccctgcc ccattgcatt gaactgtacc 300
actgccgctg agcaaagtca ggatcccaa ctctgaccat tgtatcatgc cgggctggct 360
ctgcaatgtc attttgatgt gtcttcagta tggatttttt ttttttttt tctgagtcaa 420
nan                                             423

```

```

<210> 964
<211> 786
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (610)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (663)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (698)
<223> n equals a,t,g, or c

```

630

<220>
 <221> misc feature
 <222> (706)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (737)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (740)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (762)
 <223> n equals a,t,g, or c

<400> 964
 taagctggta cgccctgcagg taccgggtccg gaattccccg gtcgacccac gcgtccggaa 60
 aatgcattca gaatcttcag agtcagggtga aaagcttttg ccatgattgg ccttggcatt 120
 ggttgtgtcg gacagcggga ccaggcgccc ccttacctgg ctccccctc ccaggagccc 180
 ggtgatgtcg cgaaggctgt gaacagggga ggcggcactg tgggggctgc cggcagccgg 240
 ggctggggag agacatgtgg acacgtggcc tctatggctc ccgcctgcc aatcctccgc 300
 tgggccctcg ccctgggggt gggcctcatg ttcgaggtca cgcacgcctt ccgggtctca 360
 ggtaggggaa gtctgggtgt ggcgggtggg agggagcgaa aaatgtaaga gaccagttgg 420
 gctccaacag aaagaggcat cagggggctg ggatgggggt caatggggga agggccctgg 480
 gtcaataggc gggagccttg cagccaactc cctggatttc ggggggtcaag tgaggccagc 540
 atcacttgct ccagcagcct aacagccagg acacaggggt ccaataagac cagggcccac 600
 cccargcctn tgacccttac ccacagatga rttctgtcca gtctggaaaa gctatgagat 660
 cgnctttccc amccgcgtgg accacaacgg ggcactgnk gccttnttgg caacttcttc 720
 ccggaagcag cggccgnggn accggggggc cacaggccaa tnccggcttt ttttacaag 780
 gggctt 786

<210> 965
 <211> 1340
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (7)
 <223> n equals a,t,g, or c

<400> 965
 ggtccantaa aagagaggag gtttggagcg gtggcctgtg gagttgctat ggagctgtat 60
 gtgtttgggg gagtccgaag tcgtgaggac gcccagggtg gcgagatgg aacttgcaag 120
 tccgagttct accatgatga gtttaaaagg tggatctatc ttaacgacca gaatttatgc 180
 atccccgcc aattcctctt tgtttatgga gctgtacct taggagccag tatttatgtt 240

631

```

attggagatc ttgatacagg taccaattac gactacgtgc gtgagtttaa aagaagcaca 300
ggaacctggc accasastaa accactcctt ccatccgacc ttcgccgtac aggatgtgca 360
gccttacgca ttgcgaattg caagcttttc cgctgcagc ttcagcaagg cttattccgt 420
attcgtgttc attccccctg aggaggaagc agagcagagt gcgagatcct gaccaagag 480
caccataaca tagctccgaa agggagagca gagatggcag ctgaaactca ctctgtgctg 540
ggctttggta tggtaactct ttggtggttt tatgatgctt acaaacttga gctttactcc 600
ttgtttggga gaacacgtaa ctgttgaaaa actacctggg aggagtgagt tcctccagtt 660
aaatgtggct gtagatgttg gaggctaagg aggctagtaa atatcaaaag gaaaaggag 720
tggaattgc tatcatgtaa aatatcaaag ttaaaatact aaggtgcatt ttccctgaag 780
ggaactcagt ctgactgctg tattcaaata cgtagctttg gtaacaaaca aaatccgtat 840
atgcaaatca acatatccaa acatgccaaag actgcttttc cactgcactt ggaaggatat 900
attatgccta agcctgcccc acaaattaag gtttgtgcct aaaatgttag attggactgt 960
atgccagtta gtctccatct attcctagta ctctgtccta agaactcttt taaaactata 1020
tcatgatgaa tagaaatgaa gataaaattg ctcttttgta actttatctt agtaatgtaa 1080
agattcagta aattgatgag tcaggttgca gccctcatgt gaactgaaag aagttgctcg 1140
cttctgtgtt gacttagatc aagacacgtc acgcctcctt tctggggtag tacctgtgga 1200
gccgggaagg gtctcctgca gtgccattct gccttctcaa tgagcaaaac cattttctaa 1260
gtatgaggat attagtgagt aggagatttt ataaaagaaa gacctgagtc agacaaataa 1320
taaaggctct ctgtggctaa                                     1340

```

<210> 966

<211> 884

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (77)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (771)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (796)

<223> n equals a,t,g, or c

<400> 966

```

aggggtttat aggcacgaga cctgcaccc aacctagagt tgcctttttt aagcaaagca 60
gtttctagtt aatgtancat cttggacttt ggggcgtcat tcttaagctt gttgtgcccc 120
gtaaccatgg tctcttgcct ctgattaacc ctctcttcaa tgggcttctt caccagaca 180
ccaaggatat agatggccct gccaaagtgtc ggctctctct gttaaacaaa aacattctaa 240
agccattgtt cttgcttcat ggacaagagg cagccagaga gagtgccagg gtgccctggt 300
ctgagctggc atccccatgt cttctgtgtc cgagggcagc atggtttctc gtgcagtgt 360
cagacacagc ctgccctagt cctaccagct cacagcagca cctgctctcc ttggcagcta 420
tgcccatgac aacccagag aagcagcttc agggaccgag tcagattctg ttttgtctac 480
atgcctctgc cgggtgccgg tattgaggca cccagggagc tgttactggc gtggaaatag 540
gtgatgtctc tacctctgct gctgcactca cagccacact tgataacga tgacaccttg 600

```

632

```

cttgtttggg aacatctaaa catctagtag atgacttgca ggctggtggc taccagtttc 660
ctgtctgagg tgtatatgtt aacttcgtga tcagtttgta tgtttgggac tcttgctcta 720
tgtaaagtta aggtgggccc ggtgcagtgg ctcacgcctg taatcctaac nctgggagggc 780
cgaggcgggt ggatcncctg atggtgaaac ctcactctcta cttgaaaata caaaaattag 840
ctgagtgggtg aaaaaaaaaa aaaaaaaaaa aaaactcgag gggg 884

```

<210> 967

<211> 1632

<212> DNA

<213> Homo sapiens

<400> 967

```

aaattgaaac ttctaataaa aatgatatga ctatagatat attacatgct gatggtgaaa 60
gacctaattgt tctagaaaac ctagacaact caaaggaaaa gactggttga tcagaagcag 120
caaaaactga agatacagtt ctctgcagca gtgatacaga tgaggagtgt ttaatcattk 180
wtacagaatg taaaaataat agtgatggaa agacagctgt tgtgggttct aacttaagtt 240
ccagaccagc tagtccaaat tcttcctcag gacaggcttc tgtaggaaac cagactaata 300
ctgcttgtwg tcctgaagag tcatgtgttt taaaaaaacc tatcaaacga gtatataaaa 360
aatgtgatcc agttggagag attttaaaaa tgcaggatga gctcttwaag ccaatttcca 420
gaaaagtacc agaattgcc ttaatgaatt tagaaaattc taaacagcct tctgtttctg 480
agcaattgtc tggtccttca gactcctcta gttggccgaa atctggatgg ccttctgcat 540
ttcagaagcc aaaaggacga ttgccatatg aacttcagga ctatgttgaa gatacatcgg 600
aatacctagc tcctcaggaa ggaaattttg tttataagtt atttagcctg caagacctgt 660
tgttactcgt acgctgcagt gtccagagga tagagacaag accacgttct aaaaaacgga 720
agawwatyag aagacaattt ccagtttatg tactaccaaa agtagagtat caagcttggt 780
atggagtga agctctgact gaaagtgaac tttgtcgctt atggactgaa agttttattgc 840
attccaacag ctcattttat gttgggcata tcgatgcatt tacttcaaaa ctttttctac 900
tggaagaaat tacctcagaa gaattaaaaag aaaagctttc agcactcaag atttccaatt 960
tatttaacat cctccaacac attctaaaga aactaagtag cttgcaggag ggttcctact 1020
tgttatctca tgcagcagaa gattcttcac tcctgattta taaggcctct gatggaaaaag 1080
ttactaggac agcatacaat ttgtataaaa cacattgcgg ccttcctgggt gtaccttcca 1140
gtctctcagt tccctgggtc ccattagatc ccagcctgtt attaccatat catatccatc 1200
atggaagaat accttgctact tttccaccga aatcactgga taccacaaca caacaaaaga 1260
ttggtggaac gagaatgcct acacgcagcc acaggaatcc agtttccatg gaaacaaaaa 1320
gcagttgctt gcctgctcag caagttgaaa ctgaaggagt ggctccacat aaaagaaaaa 1380
taacttgagg actgtaccat ggaaaactaa atttaaaaaa acagttataa cagtgtttta 1440
tttagataag tttgagggaa aataatcagt aggcaagagg aacatttttc ctgtagtagc 1500
tagagtgcct tgaaaaaatg tgttggctat gtgaaggaat atttcaacta aaatggaatg 1560
gtatgctttt cacccttgaa gtttgaggag gatcttgata tgttttaaca ttatcatggc 1620
agggaaatat at 1632

```

<210> 968

<211> 1592

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1581)

<223> n equals a,t,g, or c

633

<220>

<221> misc feature

<222> (1589)

<223> n equals a,t,g, or c

<400> 968

```

gctgtattcc cccttccagt tttttcttcc ccttttctta tttctttctt gctctctctt 60
ttcagccctt caggatttcc ctgctacttg ggttcttgtc ttgaaacttc cttacacttt 120
tactgttttt tttttacttc cctttttctt aatcttcatc tctttcctca attttctttc 180
cttatcttcc ctacccttct tattatcttt ctgttttgtc catgtaattt cttctccctg 240
tttaccacct ctgaccttct tgtatttctt ttctgtccct cctattact ccttcccttt 300
tcttgtccct cagtttaatt atttcaaaca catcacacat aaggcctgtc attcccttga 360
tttctaattt atcttttcaa cctctaataa atttracaca garaatattt cccattcac 420
tttgtccccc atctactcag atctatcaac ttctctgatg gttatttgaa agtttagtac 480
ttaaaaaatgt gtcagattaa aacttgttta gaaacagcca gctagctgga gatgaaaaat 540
atataagagc ttatttgcaa ggtggttaat acatgtataa atactacaga gttgactgta 600
tatagggtatg ttgtagatac attaaagctat tctgttctct gcttcatctc ttagattggg 660
ggaacgagaa tgccctacacg cagccacagg aatccagttt ccatggaaaac caaaagcagt 720
tgcttgccctg ctacagcaagt tgaaactgaa ggagtggctc cacataaaag aaaaataact 780
tgaggactgt accatggaaa actaaattta aaaaamcagt tataacagtg ttttaatttag 840
gataagtttg agggaaaata atcagtaggc aagaggaaca tttttcctgt agtagctaga 900
gtgccttgaa aaaatgtggt ggctatgtga aggaatatat caactaaaat ggaatgggat 960
gcttttccacc cttaaagttt gaggaggatc ttgatattgt ttaacattat catggcaggg 1020
aaatatataa agaagaaaaa tatttttaca ttaaaccctt tctaaaaatt gtaaatagaa 1080
aaataatttg gttttttatc aagaacaaca cttatcgtaa tgtatttgtg tagttatatt 1140
gccagtctgt tgcgactgac tcaaaaagtt aaatgttgcc actgctgaag atgattatga 1200
gcatcgcaaa ctttgtttct gacccatttt gacagttttt atatactcct ttaaaatgat 1260
gaatgttaca ggtaataaaa gttaatacct ttaaaaactt ggtgaaattc cattacagaa 1320
gccaaaaata aaaactccct gcctctgaaa agtcagatta ctgacttctt gtttggaac 1380
catcagtttg ttttaataaaa gaaaaaattt ggtggtataa catgtttgat gacagatgcc 1440
tctatctcta gattcaagct gagtgttgaa atacactgct gaaagcaaag agatagggtat 1500
gttttccaga aaaaaagtca gtgtcattgc tccagatgac aagggttaatg tggtaaagca 1560
taagcttttt tttttttttg naagggagnc tc 1592

```

<210> 969

<211> 1931

<212> DNA

<213> Homo sapiens

<400> 969

```

tttttttttt ttttttttgt attcttgcca gtacagtata tggtttttct accccaatta 60
catactgggt tttgtaccac atcaactaaag gcccaaatca ttgaagatac aaaaccgtac 120
atgcaggctg gttgtctggt tagtcaatgg ctgatttgc tcaactgtct agtatgtatg 180
tgcagcctga aactggctcc ttaaaaaggaa agccgggtca gtcactctga aaaaatgaca 240
tgtaaaaagta aatcgataat tgttttgaga gacggtacat gttttaaagg ttggccttaa 300
gcttcagtaa cattgtcatt ttgtgacctt ttgttgtcac acctgtaccc taacctgaca 360
ggaatctaact actgtttttt tgtggggcag aaagcaaaac ctggtgttgt gactttttatc 420
ctaattgggtc ttaggcaagg ttagtgagaa gaaacacaaa cccagatgca tgcattgtgc 480
attattttgt agacaagcta ctttttcttc tgtcccttta acaaatttgc agcaattacc 540
ctcccttttg ggtctagagt gaaagctaatt ttgtgggtag atgagattgc agaagaatgg 600
atgtccatgg ctgtgaacac tgcacactgc acatccatct ccagtgtcct cactgtgcag 660

```

634

```

ctaccactcc ctggctgcgt gccatgctgt cggggtgcag atttgcacac ataaattcct 720
caggaagagt ttgcatgagc atcacctcgc aatattctgt actgaccaa caagggattt 780
gaacgttttt cagcacaaaa ggataacttc cgagtgggtg tctgtacgca tactagcaaa 840
ggtaatgggtg atctagcaaa caaaattggg ttctgcagtt agaagtgagc aggagcactt 900
gtattatagt atttaaataa tcctgggttaa tctcttttta agccgagtaa cccctccaga 960
ttttgccttt ttattattga ggctggcctt attttcttct actttttttc ccgttttata 1020
gcagttaatt atttttgtga ttattatgca agaagcattg ccttgagtt aaactgttat 1080
tgtttcataa gcagctatta aaataactga gcattgtttt atgaacatac actaatctga 1140
gatactgaaa agctttgcaa ctaaaaagca aaacaaccta cattagtgca tctagccatt 1200
gtttggatgt tttgagttga ttttttatgg tgccctcttt agcttggaat attacgttta 1260
ctttaatcca agtctaggcc ttttaaaggg tccttaaaat taaagttcag aatgtgaatc 1320
cctttgacat ctattacagg tttataggac ctttttggtt gtgattactg ttttcaatac 1380
gattgtataa atgaagttaa ctttgtcaga agttaaaatg gaggtcatag gaggttcctgg 1440
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aagaatatga gaaaggaacc ctggtgtttt ccaagggaaa tcattcctct ctgtcccccac 1560
tgttgattaa ctaaagtcct ggacaccttc ctctctccac tggccaagac ccaccttgac 1620
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aacctactat atattgcac cctgctgggt ggaaattatc ttcattctctg gactgcattg 1800
tttagaaaaa tgtaaatggc ttacaattct gagaacttta ttgtgtgggt ctgggggttaa 1860
gaattctgtg gtttgaaaaa aaataaatat tttgtattga ttcaaaaaaa aaaaaaaaaa 1920
aaaaaaaaa a

```

<210> 970

<211> 743

<212> DNA

<213> Homo sapiens

<400> 970

```

tctaactgtg gagtggatta aggagatttg caaasgacaa agggakgaat tccttacttt 60
aatctgttat catttttctt atgtttccyt ctttgttcag aagcccagat gcatttttat 120
aactcagttt taaaaacttt aaaatagtta ccttgccctt taggatgttc ttatcccacc 180
cataatgaga gttgaaaggg gatggatagc tgctccccat gcccttccca ctttttggaa 240
taggccgtga ggggtgtgagg aagaaggctg tcttttgtac ataaggacaa aattgtttgt 300
tttacataaa ttttgttaca tttttttgct aatggctttg tatgtaacaa gaagcgagtt 360
gccaaactac ctgttgtagt tttgaatttt ctgattgaat tacagactgc gaacaacggc 420
tttcagaatg agggaacttc atcagactct aatgataata gtagcacaaa ttgaaaactt 480
ccccaaagct ttcacagaat attttctcat aataaaatcc aagtgaacag ataattagaa 540
gaaacccttt tccttcaggg aaccaagcaa ctctatttta gtactgacat gcattatttt 600
cactgtgaat tcactttttt attgcatgtt cagatgtccc tctttgtttt ttttttttgt 660
aacattaact gcaatgatgt tcttcctgga attcatgaaa atataattaa aacacatttt 720
taaacaaaaa aaaaaaaaaa aaa

```

<210> 971

<211> 567

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (48)

635

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (68)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (73)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (545)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (547)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (562)

<223> n equals a,t,g, or c

<400> 971

```
cctggggaac caaagcccac ccctagggga aaaccagggc aaacgggngg accccctagc 60
tgggtatcngc cgncaaaatt gattgccttg cytggtggtg gggaaaaaac tcccacacat 120
ttggtcagag aagttttctg tctttattgt ggtgtgagag cagaggaaaa aagtttggtt 180
tttccgctca gactttgttt taaggaacag gggagaggga agttctgtgg tttttgaagt 240
tcttagatac gtgtgtgtag ctttgtgtgg cattatatat agcattatat tattttctac 300
ccttatctac tcatacagaa attgcacagt aaaaacatca aagttttattc ataaaatgtg 360
gatctattgc agtcaactaa aatgttgtag aacagatttt aatgactgaa agtggttcag 420
ataatatatt caatgaaaat atggttaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 480
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaataaaaa aaaaaaaaaa 540
aaaaananaaa aaaaaaaaaa anaaaaaa                    567
```

<210> 972

<211> 366

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (261)

<223> n equals a,t,g, or c

<220>

<221> misc feature

636

<222> (343)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (360)

<223> n equals a,t,g, or c

<400> 972

```

agtgagaact aaacgggggaa tacagatagc agagattaaa taggctataa gaaaaaaaaag 60
ggatgataat aagaccatgg tagtacataa aaaattttaa tgatctgggt aaatacattt 120
ttaaaaaactt actaagtgcc cagtgcggtg gctcaggcct gcaatcccag cactttggga 180
ggctgaggtg ggtgggtcac ttgaggccag gagtttgaga acagcctggc caacatggcg 240
aaaccccgtc tctactataa ntacaaaatt taaccaggcg tgggtggtggg cacctgtagt 300
cccagcttac ttgggagact tgagccatga ggaatcactt gancccagtt ggggtgggagn 360
tttggg                                     366

```

<210> 973

<211> 411

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (45)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (300)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (406)

<223> n equals a,t,g, or c

<400> 973

```

gaacagggggg ttttgttttg ttttgaaaga acgtctctgt ctgtngccca ggctggagtg 60
tagtggcatg atctcggtc actgcagcct taacctcctg gctcaaaca gccccctgcc 120
tctgcctacc aagtagctga gactacaggc acctaccacc gtgcctgtct aattttttaa 180
attttttata aagatgaggt ctctctttgt tgcccaggct ggtctcaaac tectaacctc 240
aagcaatctg cccacgtcgg gcttccaaag tgctgagatt ataggcgtga ccaccctgn 300
ccaattgtga tcgtttttcc caaagaatgt atcacatgct aacaaaccat atatttatgt 360
atttcattgt tcatagtaac tacaatttaa aaactaaaag aacaancagg c 411

```

<210> 974

<211> 943

<212> DNA

<213> Homo sapiens

637

<220>
<221> misc feature
<222> (5)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (933)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (937)
<223> n equals a,t,g, or c

<400> 974
gtttntgagg ttcagtttta aacatttgct ttaagaaaac agtcttgaat ttcacatgct 60
gctattttta tattttgcca ttttacagta ctgttttggt ttgaattcat gcataatcatt 120
gaaaattttct cgttttcatt ttcttagatg acttcttgct tgagacagaa aaatttccta 180
ctacagcagt gcagtccaga ggtaagatg tattagaatt atacaatata agtttaaaaa 240
tctgtatgca taaagaatgc accactcaac ttttttattc ataagctaata atttttttaa 300
agttacatta agattttttc tcttttgtag ctacatttga aagtgataga ataaagagat 360
tttaatgagt tatcaatttt tcagctgata tattcaatttt aatggctttt ttgaaagtgc 420
cttttttcag aacacacccg agaaatctta aatagacact ttgcaatatt taagaacctta 480
atgctgttta attttggtac agcttccaca ttgcatgttc acttttagtat ttgcaatttg 540
atatattttca tgggtggcaaa atatttagctc tgttttggga ctttttaaaa tagaactatc 600
cttggttcgat agcataggaa aatgttctgg tgattgtcag ggtctcctaa tatttatctc 660
aattctttta taagtctatg gaaattatct aattatttta aaacgtacac acttttcttg 720
taaatatgtc acatctgagt tcaaaaaaat tactttgaat accttaatat ttgctgcatt 780
tttttccgta tatataacat gtcttctttc agaatgggaa tatatgtgtg cctcccaaca 840
tttactgtta aagtgtgtta tcttttatatg tcaaaactgg tgaacactgt aatgagaata 900
aactgcacag agtttaaaaa aaaaaaaaaa aancccnngg ggg 943

<210> 975
<211> 719
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (703)
<223> n equals a,t,g, or c

<400> 975
gccctgatca acatgagatg accgccgtgt ggtaaaactga tgaacccccga ccctgatgaa 60
catgagatga ccgccgtgtg gtaaaactgat gaacccccgac cctgatcaac atgagatgac 120
cgccgtgtgg taaactgatg aacccccgacc ctgatcaaca tgagatgacc gccgtgtgg 180
aaactgatga accctgaccc attaggcttt ggctacagaa tgtggaaata agttgtgtta 240
ctacatgtgt gtaatcctag ggtgcaggac accggccggg aggttccata gagtgatggg 300
ttctgcagg aactcatcct ctagtccctc gtaagctcct agaaggaaga aattatgtcc 360
tttagactaa taaaattcct ccaaaccaaa tacagcacct actgtgaaga cacaaagata 420

638

```

cttttagaat agtaaaaact ttatccattg agaaattcct taatgaaaca gtatccaaga 480
agtcatttgc cagcagattt cttagagggtg cgataaagaa gaggacattg ccagtcgtca 540
cagcagctgc aatagctcct ctctattgtt aaacagtggg atatcttgtg caggttttca 600
gttgacaatc aatttttaaag attagtttcg gtcccatca atcaattatt tattaacca 660
tcaataaaaa tttaaatgct ctgtgaggta caatagctwt twnaaaaaaa aaaaaaaaaa 719

```

```

<210> 976
<211> 480
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (200)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (201)
<223> n equals a,t,g, or c

```

```

<400> 976
tgtttcattt acagcagctt ttagaacgta agccagataa ttatatgaca ttatctcggt 60
tgattgatct cctaagaaga tgtggaaaac tcgaggatgt cccaagattt ttctcaatgg 120
ctgagaaacg taactccaga gcaaaattgg aaccaggatt tcagtattgt aaaggactgt 180
atcttttgta cactggagan ncaaattgat cccttcgaca ttttaataaa gctcggaaag 240
atcgtgactg gggccaaaat gccctttata atatgataga gaatctgttt gaatccagat 300
aatgaaactg ttggagggtga agtatattgaa aacctggatg gagacctggg taattcaact 360
gagaagcaag aatctgtgca actggcagta agaacagcag aaaaacttct taaggaacta 420
aaacctcaga ctgttcagggt tcacgtacag ctctgcataa tggaaaacta ttgggggggg 480

```

```

<210> 977
<211> 1994
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (231)
<223> n equals a,t,g, or c

```

```

<400> 977
ctctgttctc tggaatgcc a tgatccatcc actgtgcaat atgactctga aaggggtagt 60
atggtaccag ggggagtcca atataaatta taacacggat ctgtacaatt gcacattccc 120
tgcactcatc gaagactggc gtgaaacctt ccaccgtggg tcccaggggc agacggagcg 180
tttcttccca tttggacttg tccagttatc ttcagatttg tctaagaaga nctcagacga 240
tggatttccc cagatccggt ggcatacaaac agcagacttc ggctatgtcc ccaacccaaa 300
gatgcccaat actttcatgg ctgtagctat ggatctctgt gatagagact cgccttttgg 360
cagcatccac cctcgagata aacagaactg tggcttatcg gctgcatttg ggggcccgtg 420
ctctggctta tgggtgagaak aatttgacct ttgaaggacc actgcctgag aagatagaac 480
tcttggctca caaggggctg ctcaatctca catattacca gcaaatccag gtgcagaaaa 540

```

639

```

aggacaacaa gatatttgag atctcctggt gcagtgacca tcgatgcaag tggcttccag 600
cttctatgaa caccgtctcc acccagtcct tgaccctggc gatcgattct tgtcatggca 660
ctgtgggttg tctccgctat gcttggacca crtggccttg tgaatataag cagtgtcccc 720
tataccaccc cagtagtgcc ctgccagccc ctcccttcatt tgctttcatt acagaccagg 780
gtcctggaca tcagagcaat gttgctaaat gactgtttca gtatgatcag aacttagata 840
taaggatggg tccttcagat tttagcattt aggagtttca ataataacca ttgcttttaa 900
aggaaattaa tagaaagcct cattgaatgg ctttcagcta gcacatggct gtttctatat 960
tctgatgagc ccaggctyat aggtaacttg aaatgcttgc tttttgttcc ctagttaggtc 1020
taagggtctg tattggacta attctgaact acagacaaat tggacctcaa tgtcatttat 1080
ttccctcata ttaatgggag tgaaatgtct aatacttttg ccccttttta tccagagttg 1140
tgggatctca ggattggaag agattttaaa ggccacatag gccagctagt gttcatgtgt 1200
tctttataaa atttctccca tccaagtact aaccaggccc gacctgctt agcttccgag 1260
atcagatgag atcaggcgcg ttcagggtga tatggccgta gacgtcttta caaaattcct 1320
gacagggtgt tactgaatct ctctatgaac tttccattca aaactttcca agtttttctt 1380
tatgtggaac cgaaatcttt ctttctcccg tgaaacttta ctactatcag ataattgaag 1440
acagatctct ttgtattctc ttcaagccca aaccaattct gttccttcaa tctaaatagt 1500
ggtaatatga atgtttaaga aatgaaataa gaaacatgtg caggcacttt ggaaggtgct 1560
aagtgactgc cctaaggaat gaaaagcaag ggccagggtg gagtagccca gcgaaggcac 1620
ttgggtgcc aggaacagga ggcgtgggaa actctggctt aggaaaacat gaacacaggg 1680
gcaacagagg caaactgttg ttcgagttaa atataaatct caggctcttt aaaggtaaaa 1740
ggtttaagga taatccattt ggaagaagaa aagagtgagg ctgaaagtaa agccacatga 1800
caagcatata aaaaaaatg cagatgatac aaatatgaaa gaggccttca gtgtttgttt 1860
attaagaatc ttaatgcagt ttactgatgg attaaaaaca gctaacattg tctgaaaatt 1920
atgttaccta taagaagttg gaaataaata aaagcataat cactaaaaaa aaaaaaaaaa 1980
aaaaaaaaaa aaaa 1994

```

<210> 978

<211> 611

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (105)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (108)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (279)

<223> n equals a,t,g, or c

<400> 978

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tcgtcctgcc tctgctcccc aaagtgctgg gcctgagaca ccacacccag cctaaactaa 60
aagccatttt tagtaactcc caccaatgtg gttactgtta caaantnta tggttcctgg 120
gtcatatttg gtatcaraat gtgtatgtat atccttataa atatggaatg tagaactgat 180
aatagtttac ctatcagatt tgcaaaaaata aggaaagatt tttagcagct tgtaacaaac 240

```

640

```

atatacatac ttggataaat aatttagaat ttttaaccna tggctcatat gctcttaca 300
tattctcttt gagggtaaaa catactttat tcttaacctt aaagaacctt tgataagccg 360
tgaattatga tctcagtgac tacatttctt tttaggagtt atatgtgggg gaaggaaaga 420
agtagctagc aggggttaaca tggaaagcag gagattatag acaagcatca tttgagcctt 480
tggatactac aaataatctt caaaaatgac aggttttttg gctttttgtt tttcctttcc 540
tttagtgcta gttgcagaat cctatcatat tgtgggttaga tttcaataaa gaatgttta 600
gattaaaaaa a 611

```

<210> 979

<211> 2497

<212> DNA

<213> Homo sapiens

<400> 979

```

gaattccccg cgctgaggtc ggaacgtytg cgtgtgtgcg ggctggtttt gtggcggctg 60
ctgctagagc tggagcattt gccggtcagt ataaaagatt aaactctaca gaagaatgca 120
atcaagtgat ggcttttctt ttagaatttg aatatggagg ctacaggaac agatgaagtt 180
gacaagctaa aaaccaaatt tatactctgt tggacaaca tgaaatatag ttgggtgttg 240
aaaacaaaga cgtatttttag tagaaattct cctgtattat tgcttgaaa atgttaccat 300
tttaaatatg aagatgaaga taaaacgtta cctgcagagt cgggatgtac aatagaggat 360
cacgtaattg caggaaatgt agaagaattt cgtaaagatt tcatttctag aatatggctg 420
acctacaggg aagaattccc tcaaatagaa ggctcagctt tgacaacaga ctgtgggtgg 480
ggctgcacat tgagaactgg ccagatgctc ttggctcaag gactcatact acactttctt 540
ggtagagctt ggacctggcc tgatgctttg aatattgaaa attcagactc tgaatcatgg 600
acttcccaca ctgtcaaaaa atttactgca tcatttgaag catcactttc aggggaaaga 660
gaattcaaaa cccaacaat ttctctgaag gaaacaattg ggaaatattc tgatgatcat 720
gaaatgcgaa atgaagttta tcataggaaa atcatctctt ggtttggtga ttcccccttg 780
gctctttttg gcttacatca actaatagaa tatggaaaga agtctgggaa aaaagcagga 840
gatttggtatg gaccagctgt gggtgctcac attttaagaa aagcagttga agaagcaagg 900
catcctgatt tacaaggaat aactatttat gttgcacaag attgtacagt tcctgttaga 960
cttgggtggag aaagaaccaa caccgactac ttagaatttg tgaagggtat tttaagcctg 1020
gaatattgtg tgggtattat tgggtggcaa cctaaacagt catattactt tgctggattt 1080
caagatgaca gtttgattta catggatcct cattactgcc aatcttttgt agatgtcagc 1140
ataaaggatt tccctcttga gacattccac tgcccttctc ccaraaagat gtcttttcga 1200
aaaatggatc ccagctgtac aataggattt tactgtcgaa atgttcagga cttcaaacga 1260
gcttctgaag aaatcaccaa gatgctgaaa tttcttctta aggagaaata tcccttattt 1320
acttttgtaa atggctcatc cagagactat gattttacat ctactacaac caatgaagaa 1380
gacctttttt cagaggatga aaagaaacaa ttaaaaagat ttagcacgga agagtttgtc 1440
ttgcttttaa gattagcaca tttgtgcttg ataagaagaa ttccattgaa aggggaaaaa 1500
tgaagagaaa caagtatatc tgaaatgttt attttcaca atatcttaat ttatatgtt 1560
ctttaaaaaa gaacatttga aaatataaca gttaaagata tttttctaaa agagaaatga 1620
tttaatgaat cttgctttct aataaataaa ttgagtgatt ctggttgcat tcctatttcc 1680
ctaagatcta ctagtgataa ttctacctta actgtaagcc ttttagtctt caaagtcttc 1740
cacctgagcc cattgttctc atggaggttt tgtgatatta accctcccc aaagactggg 1800
atcaccaa atgtttcaaaa ttctcagttt gtactraaga ccagaagatc agagaaggaa 1860
actttaatgc tgtctagcct cctgctatta atgcaatcaa agaatacttt tgcatatgtc 1920
ttgataatta aatagtattt gttaactgkg atatgcatac acttatataa gcagaattat 1980
gagttaaaagt aatacttrgc aatatgattt tataatggct cctcattatg cttgctgttg 2040
aaccttttat gaggagtga tataaagtat tggttttccc tcacaaattt aaagattatg 2100
ttattaatac tattataact gcatcaatca agtcagataa aggcaactat aaaatagtag 2160
tagtgtttgt ttcctatctc aagggcgaaa ttttatggga actcaattta ttatgcagtt 2220

```

641

```

tttaagttta aaataccaag aaagatgtca ctagattctc ttctatgtga tttttgtttt 2280
ttatataaag cagtgtagtgt gtgttttagaa gctgaggcca cctgtaaggc aaatctgcct 2340
taagtgtatt atgtgttact taaaggcaaa tttgtgatct aaaagtacaa gagtgatattt 2400
tgagctagga ttataaaata cataataaag atgtgagaag ataaaaaaaa aaaaaaaagg 2460
aattcgatat caagctttatc gataccgtcg acctcga 2497

```

```

<210> 980
<211> 652
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (19)
<223> n equals a,t,g, or c

```

```

<400> 980
ggaaggaggt ttgttgttnc atcaatgttt gtgaaatgat ttccatacat aaaaaatgta 60
atttacctga actttgtctt aagactctta cattggatta taggataaca gataaataaa 120
ctgtatagat acattcagta tcatacaaca ttttggaatg tgtatgcttt caggcttcca 180
agataattaa attactgtca tgatacattt catgcatttt ttatgacttc agtataaaac 240
attcaggtgt gttagccttc cctgggaagg gtaaacttgt atgtgctttg gtaaagtact 300
taaattccaa tgtyccctat agtgcttgca ttcattttgt gaaaagtttt gttgtattgt 360
tagaacaatt ttcaaaggct gatttttatgc cttatctgat agaaatatag aatagatagt 420
tctttaattg cttacttttt aaaagtaata taatatattaa gttgcatttt tattaatagt 480
aagattaaca tttaagtctg cttttcttta aatgttttaa atgttttatag cattcaatgt 540
gtagttggwt ttacttgact aaaaatttagc cttttaacgt ttatatttgk tgkatttata 600
tttaataaag gcatctaate ttwartaaaa aaaaaaggcg gccgtctaga gt 652

```

```

<210> 981
<211> 323
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (309)
<223> n equals a,t,g, or c

```

```

<400> 981
ggagatatct tctaaaagtg aactggatga attgcaggaa gaggtattat ggccctgtcag 60
cattccctgt gccctcmaaa ccttaggcct agaatgcgga gctgccaaaca taacattcac 120
ccttttgaac agatggagtc aggcacacta acacagcctt ctgtcctcaa taacacagcc 180
attattgcca cttgctcagt cgtcaatgta aaccctcaga gtcagctgaa ctatttttagg 240
ccaaacatac tgtttttgta aagtattttt cattaataaa tctataagac agttctatatt 300
aaaaaaaaana aaaaaaaaaa aaa 323

```

```

<210> 982
<211> 403
<212> DNA
<213> Homo sapiens

```

642

<220>
<221> misc feature
<222> (376)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (386)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (395)
<223> n equals a,t,g, or c

<400> 982
tacaaggctt tggccgacca agtgtgtacc atgctgctat tgctcmkcttc cttgaattct 60
ttgcgtgggg cctkttgaca actccaatgt tgactgttct acatgaaaca ttttctcaac 120
acacatttct catgaatggt ctcattcaag gtgtaaaggg cctgctctct tttttgagtg 180
ccccactcat tggtgccctg tctgatgtgt gggggaggaa gccctttctc ctcggsactg 240
tattctttam ctgsttccca atcccactga tgaggatcag cccatgtttt ttaaaaaaga 300
aaacacatca gtggacgtga atgcaatgat gtcttatgaa tgctcacaca gaagcttcca 360
ttcgtgagga atgcanggaa aagcanaaga tggantaaga agt 403

<210> 983
<211> 768
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (14)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (40)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (676)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (707)
<223> n equals a,t,g, or c

<400> 983

643

```

ccaggcccta taancccggc accttgggga ggctgaggcn ggaagcacca cggagcccca 60
ggagttgggg acccggtggt gccacatagc magaccctgt ctatTTTTTT aaaaaagtaa 120
aaaatagaaa ttatctcact acttaaatec cattTTTTTT acttcatatg aaagaacata 180
ttgatagtat attctatatt atttcataga tctgtctgaa agagattggg aaaaaaata 240
tctaattgag atattcttta atTTTTTaca tagcagcttt atTTTTTTta ttctgtagta 300
tcagcgaaat cagtcagtgt tataccttga atataaatat caggaatcat gcaattattt 360
ctactatgta ttagtagta tcttatatt gtataacatt attacatttt gcaaattagt 420
atcacaactg ctaagtagat gtttctgagt attagaaaaa tcagtgttat tactgcagg 480
atattaaaaa acatttgaaa aagagaaaaa gaaaaatcag tgtttagaaa tgttgatagt 540
tattgaatct ttgaattgaa ttttaaaaaa ccattctagt aatcagagta tactTTTTTT 600
atagaacaag gtggcagggt gggagccctt tacccttctg gtgaagttaa accataggaa 660
gtttacaatt tgsctnttca caaacmttag cagtccsggg catggtnggc tkragecctgt 720
gratycccrq catgttgggg aggcccgagt tggggagggt tgcttgag 768

```

<210> 984
 <211> 134
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (131)
 <223> n equals a,t,g, or c

```

<400> 984
cctgatatac aaatacaact atacaaaatt aaaaaacata gtttgkatga aaaccaaaaa 60
tttagtccct aacatttgac ttgcactgtt gccattgcac ttcatgcagc ttataggcac 120
ctttccaggg naag 134

```

<210> 985
 <211> 1134
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (1120)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (1127)
 <223> n equals a,t,g, or c

```

<400> 985
gtcggacaaa gccctcgcgt cggacccttg ccagaactca attaatggat gcctcgaagt 60
tgacgtacat atatattcag aaatgttttg ccacctgaga cctatgagga ggttatgtct 120
agagaagata tttccacact ggtttccctt ttcaagagct ttatcgggag ctgaagcagt 180
caatgccttg aggcttttct attttgcagt acatccagat ttctttggac agcaccctgt 240
agaaagggat gatacatgga agagttttca atgccctagt gatttttcct tatgatgcat 300
gctgctggac cactccccta caacatcagt taatgtgtgc tccaggaata caaactgata 360

```

644

```

tgaaaaatga cttatggtag atgtagtta gacagtcaat atattttaac attagaaaat 420
acagtcagtc cttcatatcc atgggtttta catccatgga ttcaaccaac ctcagactga 480
aaatattagg ggaaaaaaat acatctgtac tacacatgaa caaacttctc tttcttgtca 540
ttattccctg aacaacacag gataacaact acttacatag cacttacatt atattagata 600
ttataagtaa tctagaaatg acttaaagta tatgggagga tacacatagg ttatttgcaa 660
atactacact attttatatg agagacttga gcattcgcag atttcggtat ccacgggagg 720
tcctggaacc aatcccctat ggataccaag ggactgctat gtattacaaa gccacatgct 780
ttggaattac ttcagtgttc cttctatttt cattaacact gatatctagt ttaatatgaa 840
aaggaacttg aaatcttgaa aattagaaca tcgttatttt tttctacttg caatggaaaa 900
tctattttgc ttttttgctt ctaggaaaat attckgatta tgatatgtga tatgttggct 960
actcaaagtc agaacttttc aaagtaatca gtaaatggra tcaacagaaa aatattcatt 1020
aactcgggga tgcawtaata aagtttttaa attcaaaatg tatagaaaaa tcaagcttag 1080
taatacttta atattattct accaatgtat ttttttttan gttaaangac ttcc 1134

```

<210> 986

<211> 747

<212> DNA

<213> Homo sapiens

<400> 986

```

ataaatatgt gtgagcgagt tgtagaaccc mttcmagrat ggcaattttt gaactagttt 60
ctaaacmaag ggrattgtat cttcamcaga aaatattatg tgagctttct gggcatatkg 120
atctttttgt agatgtgaat aagcatctct ttgatggaga agtgtgtgcc atcaatcact 180
ttgtcaagtt gctaaaggat ataataatct gtttcttaaa tatcagagct aaaaatgttg 240
cacagaatcc tttaaaacat cattcagaga gaactgatat gaaaacttta tcaaggaaac 300
actggtcatac tgtacaggat tataaatgtt caagttttgc taataccagt agtaaattca 360
ggcattttgct aagtaacgat ggatatccat tcaaagtga gacctaaaat atattaacat 420
tttaattaag aatacttgat caacattttt tgaagttcaa tttaccatat tttataaatt 480
gcgcatctctg cacagtggac aagtttgcaa ttctgactta ttaaaatttc aaattctgca 540
tatcacaaaa tctccttata cttttggtat ggcttgagc atttatgagt tttccaaaat 600
atagaaagca gtaggtcagt aggagcaaac tagccaacag gtactgtctt tgaatttact 660
actgtaagac taagcagtgat tactggacac agttttaact tgtkcaatct gcttcaaaaa 720
caagaaaaac aacaactatg agttatc 747

```

<210> 987

<211> 610

<212> DNA

<213> Homo sapiens

<400> 987

```

ggcacgaggg aaatctagac ctccaagtgt atgcagcaga gtctcctcca tcttgaaaca 60
aacaaaacat taggtccttg ttgtatcttg gtttagtaac aggcccttaa ttaacttatt 120
tgtacatgag tcttcagag aacactgttt tatattaact ttcagttgaa atctttcaga 180
tattttgaat ctctgaacaa ccattgtcag ttgtgaatga tggtaaatTT tttggcatca 240
agtctcataa cccaactga tagaactgtt gcttatctgt cttccttaag tatttttttag 300
ggttttgttt ttttttttgt ttgtttgttt gtttgccttc acttttcccc cagggtctgtt 360
gagctgtatg agattcattc atacttcatt tattcattca actaatattt gttgaacact 420
tacatgtacc agacattatt aagtgtctgg tatatggtaa tgaacagaat agacaaggcc 480
cctgcccttt taggggagac agatgagaag taaattmcgg gttatgagaa atgttatgaa 540
ggaaaggmca acaacagaca tgtcttagtc taggggtacat ggcttttatag gaaagtaaca 600
ttctctatct 610

```

645

<210> 988
<211> 394
<212> DNA
<213> Homo sapiens

<400> 988
ttgaaaattg atacaaacag aatcaggaca gaaaatgggt ccattttgcc cagtgttgta 60
ccacaagaac acaacacctt gccagtatct caggcacctt ccaaaccaaa tctgacaagt 120
gaacatactt catatggctt aattttaaca aaaccatacg tcagaccatt gcctcccagt 180
taccttgatg aacggatatct taktatgcc aaacgcagaa aatttctgac tgatagagta 240
katgcctgtt ctgatcaaga taacgtgtat aaaaaatcag tgaaaagatt aagatgtggc 300
aaatgcctga ccacctactg taatgcagra gcacttgagg ctcatcttgc aaaaagaaa 360
tgtcagacac tctttgggat ttgattcaga tgat 394

<210> 989
<211> 1481
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (423)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1259)
<223> n equals a,t,g, or c

<220>
<221> misc feature
<222> (1481)
<223> n equals a,t,g, or c

<400> 989
cgccgcccgt gcctttcctc ttctctctyc tctctcttgg catccgcctc ttcttctctc 60
tgcgtcctcc cccgttgcct ccgttgcctc cgacgcggag cccggagccc gcgcgagacc 120
cctggcctcg cggtgccatg ctgccccggc ggcggcctg aaggatggcg acgcgcctgc 180
ctccgcctc cccgcggcac ctgcggtgc tgcggtgct gctctccggc ctggtcctcg 240
gcgcgcctt gcgtggagcc gccgcggccc acccggtatg agccgcctgt cccgggagcc 300
tggactgtgc cctgaagagg cgggcaagggt gtctctctgg tgcacatgcc tgtgggacct 360
gccttcagcc cttccaggag gaccagcaag ggctctgtgt gcccgagatg cgccggcctc 420
cangsggggg ccggccccag cccagactgg aagatgagat tgacttcttg gcccgaggagc 480
ttgcccggaa ggagtctgga cactcaactc cgccccctacc caaggaccga cagcggtctc 540
cggagcctgc caccctgggc ttctcggcag ggggcagggg ctggakctgg gcctccccctc 600
cactccagga acccccacgc ccacgcccc aacctccctg ggctccccctg tgctcatccga 660
cccgggtgcac atgtgcgccc tggagccccg gggaggggcaa ggcgacggcc tcgcccctgt 720
gctgatcctg gcgttctgtg tggccgggtgc agccgccctc tccgtagcct ccctctgctg 780
gtgcaggctg cagcgtgaga tccgcctgac tcagaaggcc gactacgcca ctgcgaaggc 840
ccctgggtca cctgcagctc cccggatctc gcctgggggac cagcggtctg cacagagcgc 900

646

```

ggagatgtac cactaccagc accaacggca acagatgctg tgcctggagc ggcataaaga 960
gccacccaag gagctggaca cggcctcctc ggatgaggag aatgaggacg gagacttcac 1020
ggtgtacgag tgcccggggc tggccccgac cggggaaatg gaggtgacga accctctgtt 1080
cgaccacgcc gcactgtccg cggccctgcc ggccccagc tcaccgcctg cactgccatg 1140
acctggaggc agacagacgc ccacctgctc cccgacctcg aggcccccg ggaggggcag 1200
ggcctggagc ttcccactaa aaacatgttt tgatgctgtg tgcttttggc tgggcctyng 1260
gctccaggcc ctgggacccc ttgccaggga gacccccgaa cttttgtgcc aggacacctc 1320
ctggtccctt gcacctctcc tgttyggttt agacccccaa actggagggg gcatggagaa 1380
ccgtagagcg caggaacggg tgggtaattc tagagacaaa agccaattaa agtccatttc 1440
agacctgaaa aaaaaaaaaa aaaaaaaaaa aagggggggg n 1481

```

<210> 990

<211> 415

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (25)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (30)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (252)

<223> n equals a,t,g, or c

<400> 990

```

ccacgcgtcc gcggaacgct ggtenctgan cgttctgtgt ggccgggtgca gccgccctct 60
ccgtagcctc cctctgctgg tgcaggctgc agcgtgagat ccgcctgact cagaaggccg 120
actacgccac tgcgaaggcc cctggctcac ctgcagctcc cgggatctcg cctggggacc 180
agcggctggc acagagcgcg gagatgtacc actaccagca ccaacggcaa cagatgctgt 240
gcctggagcg gnctgagggtg ggcygastgc ccacttccag actgggccac tggcacctcg 300
agggcatggg gaggacccag cgatcccccc ccaccaggc ataaagagcc acccaaggag 360
ctggacacgg ctctctcgat gaggagaatg aggacggaga cttcacggtg tacga 415

```

<210> 991

<211> 1280

<212> DNA

<213> Homo sapiens

<400> 991

```

agcaccatct ggagtcttcc tgtagtggca aaaaagaaca gtgttgaaat tggaaaggac 60
tttgtgttat ttaggttggt agaattgagc ttaccaataa taagagccct gagcccagaa 120
aaaaggactg tatagtttaa agggaggatt gaaagggagg taaaaaatca gattagacca 180
gttcttggcc tatgataagt tccaaaaata ccatattatc actatttgaa aaaagaagag 240
gatatccctt cctacagtaa agggatatgtc agctacatga agttgtaaga aaagcttcca 300

```

647

```

gtagagcttc ttatattaaa gaagttgatg gatatttttg aatttctggt ttgcctgaat 360
ccacctgcag ttaccccgat ccgtttgcaa gaaccagatc gtacttgaaa ctatagtggc 420
cacactctgc cttcctgagt cccttccagt catgtgtgca tcatgtctct ttgccaaagg 480
aggggagaaa ggaactttta aactgcagtt ttaacttttt ctaagctggt tcttgatggg 540
agaggttctg tgcaaaacta ccacattctg tccccaaaat gtggaatgca tccaaatagg 600
agtcttctgc ctcttaactt aaaagaacat aggaattttg tttttggttt ctttatcatg 660
ctacagagag tgaatacact ggaattcaga caccgactct gagctgctag gaacctcatt 720
tgtccatgtg caaacgctgt attccaaggc ctgtgaatgg cagcctgagg aagttttgca 780
tgcaggctgt gttttcgagc aggactaaca actgggaaat aagcaaaaaa ctgcatcgat 840
ccccagcctg gtgttggtct tccctatact tcacactgaa ctcaggatgg gaagaaaaag 900
gaaacaagct ttggcttttt ccatctcaaa agtattgtgg cacctcaaca tttcagtgtt 960
ttgcttttta aaaaatgccc tattgtaagt tgttggttta tactgtataa gtaacactag 1020
tagctgtttt gaataacata ggtgctcttc ctcatctcat ctctacacc gtggtgagca 1080
tacagagtgt cctgatattg gttaagtgac tgagaagatg ttaattactt ttgaaaaagg 1140
atcatggttt ttgctctact ttataatcaa gacaagtgtt tattaaaata ctgttttgga 1200
atgttggctg taatgtaaca gcaattttca taataaaagg cattcatctt taaaaaaaaa 1260
aaaaaaaaaa aaaaaaaaaa                                     1280

```

<210> 992

<211> 1057

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (989)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (994)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1012)

<223> n equals a,t,g, or c

<400> 992

```

gctttatgac aaagaatata attgggagga tgaagtgtct taaaaattgt agagaccagc 60
tacttggaat gtttttccat ccctgtattc atggccttgac tttgtgactg ctctacactg 120
catgtctgac attgcagagt gagctatgtt gaggtaaaact ggttggttgt cattattttg 180
caatcagcct ggtctctccc atgaagatgt cgtgtgcata agcacaatca tcaactgatta 240
gaagatcaca gcagaataacc cttggattag agagaagttc gtaccttgca tttctctgaa 300
ttctagtctc tcataagcac tgctttgctg gatgattttc actgctttgt gttaatgact 360
ttgagcgcac tctcacatga tggggttctt tagtacatgg taacagccat gtcactcttac 420
acacctagca ttgtgaatgc tgtagtgaac tccttttatag gcaccttaca gctcaaaaact 480
tttgtttcat ttcattgcctt acttatcaaa aaggcaggaa agtaggtatg atctctaaaag 540
taaaaaaaaa aaaaaaaaaa aaaacttttt atagaaaagct cataaaataat catgtcattt 600
tgcaattttg ttaccaaaat ttcccccaag agtttttcaaa tattagttct gcaatgtggc 660
tatgaaatat gcactgaaat atacctttta atttgagaac cagtgggttag aataagctgt 720

```

648

```

gatataaagt attttcagtg tactttttaa ggaactataa ggccctccag cataaacgct 780
aaaagaatag atggtagcac aggccatgag ggctggggga gagaagcaga gtgaacctta 840
gaaagatggc tcagctatct ggagcactgg atattttact gaagttatct actgaggcac 900
catcactgtt ttgactgtac agtatagttt ttcataaatt tcatcacatt tactttgttc 960
agaatctggg cttgaatctt tgagttggnc aaangcctat ggtttctttt anaaagtttc 1020
atcttgagct aatgctacag tttaaataaa atgtatg 1057

```

```

<210> 993
<211> 1095
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (1043)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (1058)
<223> n equals a,t,g, or c

```

```

<400> 993
cactcagctc tgggtggctct gagegtgggg accctcagct ccctgacact gccctgtctc 60
cacaggccca taacgacctg tgcgcacgta tkaggcaaaag ctgctggcct tcgggatccc 120
tctggacaac gtgggcttca agcccttgga aacagctgtg atcggacaga cgctgggcca 180
gggccccgcg ggactgggtgg gcaccccgac gtactgtccc ccctgggggg ccacagccca 240
gagaaccagc ctaggaacac tcgggatgac accccttata acaccaagga cagcaagttt 300
tttagatctt atcatcagca aatgaaagct tttcacatgt tcttgccatc ctctttcctg 360
gctctgtgga ggagaaccac ctgcaggact ctcacccatg gtgtccctgt cgctcccttc 420
cctgggtgcc gcacgtccag cctgtgtcca ggcctactcc ctggtctcac ctccgaccac 480
agtcggcgcc accttctcag agtgccccgc ctcacctggg ggttggggca gtgcgcgctg 540
tgctgcctgt ctctcgccca ctgttgtccc accgaatgga cagctttgca ggtgctggca 600
ctaacttcat tgacacctga gtcacagctg cccagtggga ttctccaggg ggccgggact 660
tccctaggaa gtgggtgagcc aatgctccct gatgagcaca aagcccgcct tgttgagggc 720
tgggtgggtg cagccagcgt gcgggaaaag gcaggcagcc tcccgcctgc agtcttcgct 780
ctaactccct cggtaggtga tgtaggacca ggggcacgtg gaacttctgg gccttgctgg 840
tgatggttaa aacaacctga gatggagagg ccaggagaga gtataagggg atagcagcaa 900
accacctatc tggccccaac acacctgaga gaattcagca gccacagact aggggtctggg 960
atggggtgaa ccttccgcac cagagggaca ctccacagaa gccacagccc agtaagtcag 1020
gcgcttctgc ggcggctcca gtntgggggtg aggcagtnag gttaggccca gagagctgga 1080
gttggctcag atgaa 1095

```

```

<210> 994
<211> 378
<212> DNA
<213> Homo sapiens

```

```

<400> 994
ggcagcagct ggtctcgaac tcctgacctc aggtgattca tccatctcag cctcccaaag 60
tgctgggatt acaggcgtga gcaactgcgt gggccaggta ctttgtgta tgcagctctc 120

```

649

```

tttttaaata tttttaaaaa tattatttta aaaaatattt tgtagagaca agcttttact 180
atgtttccca ggctgggtctc gaacttcttg cctcaagcga ttcttttgcc tcagcctcca 240
aaactactgg gattacagca tgagccatca tgcccagcta tacagccttc taatttacta 300
aataacgttr atgtgcttga tcatgttccc tggaaaacag accctgagaa ggagatttgc 360
atgcaggaat atttattc                                     378

```

<210> 995
 <211> 440
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (395)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (418)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (433)
 <223> n equals a,t,g, or c

```

<400> 995
tggaactccg ggacatccct ctgcgtcccc accctcccga cccccaagct cctcaacgcc 60
gaagcgcccc cgaactgccg gaaggaatcc taaaaggagg cagtcttccc caggaagacc 120
caccaacctg gtctgaggaa gaagatgggg cctccgagcg agggaatgtg gtgggtggaaa 180
cactccacag ggccccggctt cggggccagc ttccctcttc cccaacccat gctgactctg 240
ccgggggaaag cccctgggag tcctcagggg aggaggaaga agaggggcct ctgttcttga 300
aagctggcca cacatccctg cgcccaatgc gggctgagga catgctcaga gagatccggg 360
aggagctggc cagccaaagg attgaggggg ccgangagcc ccgggacagc aggccacnga 420
agctgaatcg ggnccagctg                                     440

```

<210> 996
 <211> 222
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (222)
 <223> n equals a,t,g, or c

```

<400> 996
gtgggttgat accccttcga attaccctta aaggacaaaa cggacccacg cggggggccg 60
ctctagamta gtggatcccc gggctgcaga attcggcaca gccagattgg gttccctttg 120
caaaacatcc cccttccttg agatgatgat gccatcgaag cccgggcccag ggcctgacct 180
gcaggcacac acctggccag tggctctgag gtccccggga cn                                     222

```

650

<210> 997
 <211> 772
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (769)
 <223> n equals a,t,g, or c

<400> 997
 gtgcagcatc aacgggaccc tgtaccagcc cggcgccgtg gtctcctcga gcctgtgcga 60
 aacctgcagg tgtgagctgc cgggtggccc cccatcggac gcgtttgtgg tcagctgtga 120
 gaccagatc tgcaacacac actgccctgt gggcttcgag taccaggagc agagcgggca 180
 gtgctgtggc acctgtgtgc aggtcgccctg tgtcaccaac accagcaaga gccccgcca 240
 cctcttctac cctggcgaga cctggtcaga cgcagggaac cactgtgtga cccaccagtg 300
 tgagaagcac caggatgggc tcgtggtggt caccacgaag aaggcgtgcc ccccgctcar 360
 ctgttctctg gacgaggccc gcatgagcaa ggacggctgc tgccgcttct gcccgcygcc 420
 ccsgcccccg taccagaacc agtcgacctg tgctgtgtac cataggagcc tgatcatcca 480
 gcagcagggc tgcagctcct cggagcccgt gcgcctggct tactgccggg ggaactgtgg 540
 ggacagctct tccatgtact cgctcgaggg caacacgggt gagcacagg gccagtgtctg 600
 ccaggagctg cggacctcgc tgaggaatgt gacctgcac tgcaccgacg gctccagccg 660
 ggcccttcagc tacaccgagg tggaagagtg cggtgcacg ggccggcgst gccctgcgcc 720
 gggcgacacc cagcactcgg aggaggcgga acccgagccc agccaggang ca 772

<210> 998
 <211> 552
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (429)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (510)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (548)
 <223> n equals a,t,g, or c

<400> 998
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 aagctgtttt tcttacaccc tatattgcctt tgaaatttta aaagcattca ctttacacat 120
 ctgttttgcc tttttacaaa acttttttta aagagagccc tctgccacca aaatatgctt 180
 gacctcatca tcctgagatc actgctatca aaatatattg tgatatattt ttccctagct 240

651

aatttgtgtg tgtatataca ttctatataa ttgtttttatt gtgtacaatt tgtgtaacta 300
ttatctgctt taaagggtta acagtacctt tttctgtcat taaatagtgt gcaaaagcat 360
gtgtagtaac tgcactatat gactgtctct ggtccagagc ataaatttct tcaactggtct 420
cctgtacang ggtctgcaaa cttttaagtt ggctagccta atacatattt ttagactttg 480
ctggtgatat ggtctcctgt cctaactacn ggaccctggt ttttttttaa gaacaaaaaa 540
cgccgcangc tt 552

<210> 999

<211> 681

<212> DNA

<213> Homo sapiens

<400> 999

aattcggcag aggcagtgga ggcgaacttg gtgcgggttg ccgaggtctg gctggatgag 60
tataaggagc tgttctatgg ccatggagac cacctcatcg accaagggct agatgttggc 120
aacctcacc cagcaaaggga gctgcgaaag aaactgaagt gcaaaagttt caaatggtac 180
ttggagaatg tctttcctga ctttaagggct ccatttgtga gagctagtgg tgtgcttatt 240
aatgtggctt tgggtaaatg catttccatt gaaaacacta cagtcattct ggaagactgc 300
gatgggagca aagagcttca acaatttaat tacacctggt taagacttat taaatgtgga 360
gaatggtgta tagcccccct cctgataaaa ggagccgtaa ggctgcaccc ttgtgataac 420
agaaacaaag ggctaaaatg gctgcataaa tcaacatcag tctttcatcc agaactggtg 480
aatcacattg tttttgaaaa caatcagcaa ttattatgct tggaaggaaa tttttctcaa 540
aagatcctga aagtagctgc ctgtgaccca gtgaagccat atcaaaaagt gaaatttgaa 600
aaatattatg aagcctgaag tgtaactgat gtttttatat agtaaacca ttaaatactg 660
tgaaaataaa aaaaaaaaaa a 681

<210> 1000

<211> 689

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (639)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (653)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (672)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (686)

<223> n equals a,t,g, or c

C

652

<400> 1000

```

gcgtggggcc  gggcggtgcg  gtcgcgggct  ggggcagtcg  agtgagtagc  ggtcttgggg  60
tgtgcgatct  cgctgagcct  cctcacacgg  ttcgtcgtct  cgggttcgag  cccagtggct  120
tagccactcg  ccatggactc  ccagaaagaa  gctctacaga  ggatcatttc  aactctggca  180
aataaaaatg  atgaaattca  gaactttatt  gatacactac  atcatacact  aaaaggagtt  240
caggaaaatt  cgtccaacat  actctcagag  ttagatgaag  aatttgatag  tttatactct  300
atactggatg  aagtaaaaga  aagtatgatt  aactgtatca  agcaggaaca  agctcgtaaa  360
tccaagagt  tacagagtca  gattagtcaa  tgtaataatg  ccctggagaa  ctctgaagaa  420
ctattagaat  ttgcaacaag  gtcattagat  ataaaggaac  ctgaagaatt  ttcaaaggct  480
gccagacaga  tcaaggatag  agtcacaatg  gcttcagcct  ttcgcctttc  tttgaaacca  540
aaggtcagtg  acaacatgac  tcatttaaatg  gtggatttct  cacaggaaag  acagatgctg  600
caaactttga  agttttttgc  cagtccccaa  arctccaana  tagatccagt  tanaattggt  660
tgggtgggca  anataaattc  ctgttncaa  689

```

<210> 1001

<211> 543

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (537)

<223> n equals a,t,g, or c

<400> 1001

```

gatgattggt  aggatatttt  aacaatgaag  tattttttaa  ttaaggtagt  tattttctta  60
ggcataatgc  tattgcacac  ttagtaaaact  acagtatagt  ataaacgcaa  cttacatgca  120
ctgggaaact  gaaaaaatta  tgtgacttgc  tttattgaga  tactcacttt  attgtgggtg  180
cctgaaacca  aacccgcagt  acctgtgagc  atgcctatat  ttgatacaat  aggaactata  240
ttgcaggtag  taaaaaatga  tgaatagtgt  tagttcaaag  cgatagatga  tttgtatgtc  300
caaattaaag  aaaagcatgt  atgggaaaaa  gattgtcatt  tttatgtaaa  trataaagtg  360
ctttctgaat  tgtattttaa  gaaaagaaga  ttttataagt  ccaaagaatc  acttaataca  420
atgaataaag  ggtaataatt  taccactttt  ggattacctt  twattttaaga  cataaatttt  480
tcaactcata  agctwtttta  aawcttttca  cttaaraaac  ccggtggaaa  atttggntta  540
agg  543

```

<210> 1002

<211> 469

<212> DNA

<213> Homo sapiens

<400> 1002

```

aacctttcca  cactataaat  gatatgacta  ctgtttgggg  tttctggggc  cccatccgtg  60
tacgtatgtg  gcatttccag  gtatgactga  gtgtgagaga  catgtcagag  gctcttcagt  120
gatttcttgc  tattgaccga  tgcttcactg  tgccaaaaga  gaaaaaaaaa  gttgggtttt  180
gtaattaaat  tatttatata  tttttgaaac  ccgaattgaa  aatgttgcag  gcaacgggct  240
acagctttat  tagtggttct  ctaactgtgg  tctccttggg  ccaagcaatt  tctttaaagg  300
aaaagttagt  tatgtatgtg  ggggtgccagg  accactgcct  tgaaagcaag  tgtgattttt  360
atttttaata  ttattttatt  tgtgtctgtg  tacatattca  tgtataaatt  ttatgaaacc  420
caagcatagt  gcttattttt  taataaaaaca  actgacttaa  aaaaaaaaaa  469

```

653

<210> 1003
 <211> 543
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (11)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (59)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (90)
 <223> n equals a,t,g, or c

<400> 1003
 ccgggaaaaac nttcaaaawgt awscctaaag caactggaag graaaatgaa gcccamtgna 60
 gtgagtgaaa aaaactkgaa ggaaagtggg aarattccag agttccawtt cctatcctag 120
 gttaaattttg gagacatacc cagagcataa gttaagtaag taattgaaat attggagtgg 180
 agacttatttt gtctaccgaa ttattgtttt ctttgtcgga catacaccta cactgcattc 240
 cctcaaagta aaattttaagt gtggctctgt gcctatgctc tccccagcgg aaagtgacca 300
 gaagaggtgt gcagttttccc aggcctggcc catacagacc tccaacaggt gctccccctgt 360
 gctgttactc cttctgccaa ctggaagcag atgggtgacca ggctctggag aaggcaaggc 420
 ctgaagatgg gagattccta agtggaggag aactgtgcct tactgaccta aatatccact 480
 cagtattgtt atgtgagaat aaataaactt gtgttgaccg tttaaaaaaaa aaaaaaaaaa 540
 att 543

<210> 1004
 <211> 895
 <212> DNA
 <213> Homo sapiens

<400> 1004
 tgtcttcatt tttcctcctg tctgcattcc tctctctctc tctccctctc tctcctgttc 60
 ctctctttct tctcctctct cctgcctttt ccatttttccg ttcttgggtt ttgtgtgtct 120
 gcactctccat cttacccctt gcctgactgt accccgtaga cccctgtttc tctcctgca 180
 cctgtgtccc catctgcctt tcttgttgct cctgtcatgt gtcaccatct tccctcctgt 240
 ctgcctttctt cctccacttg tgtcagcttg cattttttta ttctgactg agtcaccaca 300
 cccctctccc ctgatcaaag ggaatattag tttttaattt ggatcgactg aggtgccagg 360
 agaaactgca gtcccaggta tccagacagc caccaggatg gtccctcgcc ccacccccac 420
 cgctctctcc cactttttcc aacgtgttgc atgctgggag ctgggggggtg tgggggaagg 480
 ggctgccggc ttctttcagg aggcctgagg ttggaggcaa aatcaacctg ggagaccacc 540
 ccggcccgcg cgctcagtg gacaggtggg aggaaaagaa aacttcttac cttggaggag 600
 ggacatcccc ctctcttctc cttagctttt ttgttgctcc tccccactgc cctttttaat 660
 ttattttggtt gtttgcgagg ggagggggga ggggggtagg ctggggccggg aactgtccga 720
 ggtgctgagc tggggcgagg ccggaatcct cccggtaggg tcccaggagc tgagttggcc 780

654

tggggccgtg tccaaggtgc caatgatgcg ggccgacaga gcgggcccga ctgtctgtct 840
gtccgtctgt cccggaaaga actataaagc gctggaagcg cctgcaaaaa aaaaa 895

<210> 1005

<211> 763

<212> DNA

<213> Homo sapiens

<400> 1005

gggggcttca tcgctcatag aatatgttat tttcaaagaa gttcaagaat tttcaagttg 60
agcctttgaa aatcccataa attgggttta gctaaacact tactagtagt gtctttaaat 120
tatttaataca accttgtctt ttcaaggaaa ttaccactt aaagagatag ttggtaaata 180
aacatctatg ctttttctca gaaatgattt gctgaactat gtccatattt tacagcttag 240
ataatagttt atatggaaac tattatacat ctgctattgt gcaatgattg tttaaattata 300
ctgaagtagc tctagaaaga cacatgtata caaggcacta ttgtacacac tttgctgaat 360
attttgtcag ttgtatttac aaagaaaggt actttcttaa gagcatatat gttattaata 420
tttgatatga ttttaaagtc agaatagtac agattgctga gtattatact ttaggctaga 480
ttaattaaaa ttgaatactg aaagagattt tttgagttgc aaaaagtta taaatgcaaa 540
gcaaaaagaa aacatttatt ttctgagtct gcaggagaaa caaactaaac attatagttt 600
tatagctgct atcttggtta ccaaacaggk tgttcataat attaaaaatc ttacgtagtt 660
gtgttaaaact gaaccagttc attatacctt atgcattaaa ttaaatatgt tataaggtgg 720
ctttacttgt ctttataaaa ataaatatat ctactaaaca tga 763

<210> 1006

<211> 353

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (205)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (275)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (303)

<223> n equals a,t,g, or c

<400> 1006

ctcactaaag ggaacaaaag ctggagctcc accgcggtgg cggccgctct agaactagtg 60
gatcccccg gctgcaggaa ttccggcacga gatTTTTTgt gtatgtgttt cttcccagat 120
agctacatta ttggttactt gccaaacaacc ccatatactt actattttca aaatctaagc 180
agatagcaaa aagctcacca cagancataa aatgaatgga ttgctTTTTt aaaaaaagtg 240
gataattgaa tgaataaata catTTattgt ctctnattga acctgcttgt aagccctaca 300
tantgcccac acagccctaca aattcacatt ccacatgggc gactccacct gct 353

655

<210> 1007

<211> 546

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (535)

<223> n equals a,t,g, or c

<400> 1007

```

ggtgatgaac agttctgtat cctgattgcg gtggtggtaa cgtgagtcta tacatatgtt 60
aaaattttata gaactgcata ctctcaaaaa aattagtttt actctataat aatattagag 120
cttaaaaaaat tcatccctct tgcccatcag tagatcagga tatgaaggat accattgaac 180
ataaatatatt tgtatccatg atgaatacaa agtatattct cctggaaaac caatagaaca 240
ttcatataaaa tgattcctat gaaggtaaaa aacttacaaa attcaaagat catacagatc 300
atgtgctctg tataatgtaa taatagtaac aaaaggcctg tccacttgga aattttttaa 360
tgatcttcta aataactcat ttaaaggaga aatcaaaaata aattgcaa atatttagaat 420
taataaaaaac ttctctaaag ctgaggaatt ctaccmaaga ggtgtagag gaaattgtat 480
agattttgaw ttactttyca rggaggaaaag gaagrccaaa gagtgratta aacantttta 540
aagctt                                     546

```

<210> 1008

<211> 4015

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4000)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (4010)

<223> n equals a,t,g, or c

<400> 1008

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ncgggcgcgc gccgaccatc gactcgccaa cgagagaagg tcctggggca cggacaccga 60
cgggttgcca ctgtgacgtg aggtgttctc gcgcgcgcta cgtctccggg tgccgctgac 120
gggcgtgcgc gcttgtgcgg agccggaggt gggggccgaa ccagccaagg ttgcgggggc 180
cgcagagccg gacgaagacg gagggcggag cggcttcggg actgcggaga ctacacaccg 240
agcgagcgcc tgggcccga ggcgcgatgc tgtggttcca gggcgccatt cgggcgcgca 300
tcgcgacggc caaaaggagc ggcgcggtct tcgtggtgtt cgtggcaggat gatgatgaac 360
agtctacaca gatggctgca agttgggaag atgataaagt tacagaagca tcttcaaaaca 420
gttttggtgc tattaaaatc gataccaaaa gtgaagcctg cctacagttt tcacaaatct 480

```

656

```

atcctgtagt gtgtgttcca tccagtttct ttattggaga cagtgggaatt cccttgggaag 540
taatagcagg aagtgtttct gcagatgarc ttgttacaag aattcacaag gtccgacaga 600
tgcatttgct aaaaagtga acatcagtag caaatggcag tcagtcagaa agttcagtg 660
ctactccatc tgcgtcattt gaacctaaca acacttgga aaactctcag tccagaaatg 720
cagagctttg tgagatacca cccacttctg atacaaagtc agatactgca acaggaggag 780
aaagtgcagg ccatgccact tctctcagg agcctagtgg atgctcagat cagagacctg 840
cagaggacct caacatccga gtggaaagac taacaaaaaa acttgaagaa aggagagaag 900
agaaaagaaa agaggaagaa cagagagaaa ttaagaagga aattgagagg agaaaaactg 960
gaaaagaaat gttggattat aaaagaaaac aagaagaaga attaacaaaa agaagtctgg 1020
aggaaagaaa cagagagaaa gcagaagata gggcagctcg agaactata aaacagcaga 1080
ttgcattgga ccgtgcagag agagctgctc gttttgcaaa gacaaaggaa gaagtagagg 1140
ctgccaaagc tgctgccttg ctagcaaaac aggcagaaat ggaagtcaag agggaaatctt 1200
atgcaagaga aagaagcact gttgcaagaa ttcaattccg tcttctgat ggttcttctt 1260
ttacaaatca gttcccttct gatgctctc tagaagaggc aaggcagttt gctgcacaga 1320
ctgttggcaa cacttacggt aatttttctg tagcaacat gtttccagg agggaaatcta 1380
ccaaagaaga ttataaaaag aagttactgg atttggaact tgccccaagc gttcgggtgg 1440
tactgttgcc agcaggaaga ccaactgcat ccattgtaca ctctccagc ggagacattt 1500
ggaccttggt gggaacagtg ctttatccat tcttgccat ctggagatta attagcaatt 1560
tcttgtttag taatccgctt cccacacaga cttcagtgag agtaacatcg tcagaacccc 1620
caaaccctgc atcatctagc aaatcagaaa aaaggggaacc agtgagaaaa agagtgtctg 1680
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atggtgaaga tgaaaacaac acttggaatg gaaattccac tcaacagatg tagtgtgaca 1800
agtataatat gtgcaataat cattgtttct cttatgattt aattcaacta aaattctact 1860
ggagaagtgg gactgcttta ttttttccaa ctggtctata aaatgtctct ttattcctgc 1920
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gctaggtcct tgcttatatg gcaaccactg ctagaacctt aaaagaacca aaaatctgcc 2040
acagcctgcc tccatcagct tcttatttag tatttcatat gccattagc cctatgcttc 2100
agatgacacg ttttgtttag agctactttg ctccaagact cttaagccca aagtaactgg 2160
tatgtcactg agtaacttga ctcggtgtca gagcatttta actagccact cagatgagaa 2220
tttatgttta acttctcttt ttactcatca gctgcaagca aaatcttgta gtttttaatc 2280
ttaaacactg aataaaaaaa ctttcccta aattggaatg atcttagttt tgctttgagt 2340
tttgttatct agcatctttt tgttgacag ggctctattg aggtcctatg tctctgattt 2400
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cagtgaggca tcactttgtt tgcataaagt atacggtttg ttaaggcctt tgttcttggt 2580
agatgcaaaa cagctgctag tctgcaacct agttttccct ctacacctta actgacgttt 2640
tgtectcaat aattacacaa ggacctagag tacctatagg acaaaaagta tagaataaaa 2700
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aataacagtg acttttttaa atggtgacag tgttggaag gaaacagcaa cacaggctgc 3000
gctgttggtg ggagtga aaa ccagtataat tcttctgaaa aacattttatc agaaacttaa 3060
aatatttcat accgtttgat ccagtagctt cttctaaatc ataaatgcag acaatgttta 3120
ggtaaagaca tactcattaa gtgttattta ttttactcaa gaactggaaa ccaactaaat 3180
gccttctata gaagtaattt ttgatgagga gaaatggtac aatactaatt aacaacttgg 3240
tttaacatgt ttactgagca tctgttaagt gttgggggaa aaagcagcag gatccagagc 3300
tataggtaca gtgtgatctc agctttgcaa acacattttc tacatagata gtactaggta 3360
ttaatagata tgtaaagaaa gaaatcacac cattaataat ggtaagattg gtttatgtga 3420
ttttagtggg atttttggca ccttatata tgttttccaa actttcagca gtgatattat 3480
ttccataact taaaagtgaa gtttgaaaaa gaaaatctcc agcaagcatc tcattttaa 3540

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657

```

aaagggtttgt catcttttaaa aatacagcaa tatgtgactt tttaaaaaag ctgtcaaata 3600
ggtgtgaccc tactaataat tattagaaat acattttaaa acatcgagta cctcaagtca 3660
gtttgccttg aaaaatatca aatataactc ttagagaaat gtacataaaa gaatgcttcg 3720
taattttgga gtaggagggt cctcctcaa ttttgtattt ttaaaaagta catggtaaaa 3780
aaaaaaattc acaacagtat ataaggctgt aaaatgagaa ttctgcccc tcacctctta 3840
ccccagtact attctccaga ggtaatctat taacaatttc ttatgtaatt ttcagaaaat 3900
ttgtatgcgt atataagcaa atatgtaatc tttatttttt aaataaatgg gatcatatta 3960
tawaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa 4015

```

<210> 1009

<211> 401

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (376)

<223> n equals a,t,g, or c

<400> 1009

```

gaactgttga aaaactgttg tactgatgtc accggtgatt gaaggggtat ctttaattgg 60
ctaatttgaa agaaagycac aaaagaaagg catgaataac caaaatcctg ggatatttct 120
gaaactcagt cgaggtcagt agatctgtct gggactacat tttccatccc agttcctaac 180
aaagtttcat tttcttttct ttattctctg atgtaagagt taacagtga atgaccaaaa 240
tcctgaaagc caatggagca acaataaaca tactcagata gattgcctca taaattcttt 300
cmagttagtt tttaaaagta acacattttt taaaagtcca cttkgcaaaa tgataattta 360
atatctgggt atcagnctct ccaaaggatt cctggaaaaa g 401

```

<210> 1010

<211> 756

<212> DNA

<213> Homo sapiens

<400> 1010

```

gcgtgcacca gccagacctc atgaactcag gaagggtgctt gtccaggagt tcctggttgc 60
tgtgcccttc acaggcaaag actgcatttc ttcctcagct gycagtgagg tgctgssagg 120
attccctgta gaactkctag gccagtttat gaactggttg gmaccygtgt cctcytcctg 180
gcccaggmag gagaaccatg agcaggcaga aggagacttt gcaaagtgcc ttccccagca 240
tgtgtgccct ctgcccttca gagcctgcag atakkagggg tggcaaggac actgtttctca 300
atgagcagaa cctccaagac acccaaagct gcctgtttgc cacctggccc tatgcctgcc 360
ccgtttttct cctcaaggcc ttcacccatg ctagggcagt cacctggaat gtcctttcca 420
ttacccctgc tgtaatgccc agcacagaac ttgatggcag gcctttgcat ggtagcctga 480
agcgatctca cccttctaac tgggtttgcc acaggcacac tggctcatgc ttacctgtgc 540
tgctgtgggt tatagttatg cgaattgtgg ttttacatcc ctaaaacaga agggcacgggt 600
gtccagggga tagcaccacag cccaacttca gtgtagacct gagctgggag ggaacctgtt 660
agtctcccca cctcttccct gaagagacag gcacccctcc cagccgtgggt caacggagggt 720
agtggcactt ctgccttgag tccccagggg aaaaaa 756

```

<210> 1011

<211> 393

<212> DNA

658

<213> Homo sapiens

<400> 1011

```

tcgacccacg cgtccgtaag atatgacagg tggcgacaag tgctgagaag aaaaattgag 60
gaggggtgagg gagtagagtg gccaagagcc tgggttttcag cagagggagc tggagaatga 120
accacaggggc gctggagctg ggggcgtggg agagtgtcag agagctggca tgaactggca 180
ggttgccttg aggggagggc tggttccaaa gccagtccta tagcaatttt tccatttctt 240
gatagtgaac tttggaagag ctaggggtkg ggaagatggg aagttgaacc acctctgaga 300
taaaactctc tgarggggct gargtkgwcc tgggttgggg tgccctgct actggcmaga 360
gagaagcmaa ctccatatgg aagtaatctg gtt 393

```

<210> 1012

<211> 938

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (812)

<223> n equals a,t,g, or c

<400> 1012

```

ccggcatcgg ccaccacgcg caccgggcc a cggccaggcc ctgctcctcg atgccctctg 60
cctgctcctg gacattcttg caccgaagct cggccccgtg agcacacagc tgtacacacc 120
cgtgaaaagc aacagctggc cagcctggtg ggcacgatgc tcgcttacag cctgacctac 180
cgccaggagc gcacgcccga tggccagtac atctacaggc tggagccgaa cgtggaggaa 240
ctctgccgct tcctgagct gcctgcccg c aagccctca cctaccagac gaagcagctc 300
atcgcccgcg agatcgaggt ggagaagatg cggcgggcgg aggtctctgc ccgkgtagag 360
aacagcccc aggtggatgg gagccccca gggctcgagg gtctgctggg gggcattggg 420
gagaaagggg tgcaccgacc tgccccacgc aacctatgagc agcggttgga gcacatcatg 480
aggcgagcgg cccgggagga acagcctgag aaggacttct ttggacgtgt ggtcgtcagg 540
agcacagcag tcccagatgc aggggacacg gccccggagc aggactcagt ggagcggcgc 600
atgggacacag cgggtgggcag gagcgaggtc tggttccgct tcaacgaggg tgtctccaac 660
gccgtgctgc gcagcctgta catcagggac ttgctctagt tctctgagcc ggggacatgc 720
cctcgcatg cttcccgcag agtgcagaga caggaagctg gagatgtctt tataaagtca 780
cacctttaca gactgtaaaa aaaaaacggc angagcatga atgtatgaac tggaggaagt 840
tacttacagt gggaagggtt cttaataaca aggtctacct agcatgaagt atttaacatt 900
ctccatttcc cttaaaaaat atacatttta ttaaatgg 938

```

<210> 1013

<211> 523

<212> DNA

<213> Homo sapiens

<400> 1013

```

gaagaaactc actttccctg tggcacgtta atcttcattg ttttaattct gaagcataac 60
gtgccacagg gaaagtgagt ttctttactg tttgccagca gcaaggacaa aaagtgaatg 120
gtggggggccc aggagctccc agcttggaga gaaggccctt ccagacccag gaacccgggg 180
tttggggcag gaggcaggaa ggatgggagg gtgtgatcac cgacacacac acacacgttc 240
tctctcttca gggaagggtt ttccagaagc atttgcccat actctgaatg aagtattttc 300
atgccaaagc aaacctcctg aagagaagtg aattcatggc tgagggagcc acgtgccctg 360

```

659

```

gctggggatg cacctgaacg ctgctcttca gcaagtgagt tcatagcatc caccagagct 420
tcccagctcc tcaagctgaa gacaggctga gcaaaaacca ggcaggccat gaggggattc 480
aaagaaacct aataggattg ggtgcggtgg ctcacctcgt gcc 523

```

```

<210> 1014
<211> 232
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (222)
<223> n equals a,t,g, or c

```

```

<220>
<221> misc feature
<222> (230)
<223> n equals a,t,g, or c

```

```

<400> 1014
gcaaaaaggt agctggagtg ggtttaaaat ttcgtataat ttcgtatgtg agcaagctgt 60
gtgatttaga ttatttttaa gattaaatgt ttttcaggta ttaatggtaa actataaaat 120
gtttgcttct gtataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaagg gnggccgtn ta 232

```

```

<210> 1015
<211> 423
<212> DNA
<213> Homo sapiens

```

```

<400> 1015
ttttagagaa ctttcagagc actgattttt gatagactaa gtggaaaatt tgcagagaaa 60
tgatggttgt aagtggacat gcaaaccaaa attgggggatt ggagaagtca gactcactag 120
acttttgggt cgagtactat tgaactctct cctgatgaga agatgttttag ataagtacaa 180
gttaagaaag tagcatatga ctggaaacta tattcagtcg actttctcca aaagactacc 240
cagaaaaata gacttatttt caaataccag ttatcaagat atatttaaata gctgtattgt 300
ttagaatctt aatatgggat aaattagcat atgtattcac aatattcatt cagacatcat 360
tcccagacag cagggtattt tttaaatgtt agctgtctga gtttttaaag agctaatacg 420
aca 423

```

```

<210> 1016
<211> 874
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc feature
<222> (802)
<223> n equals a,t,g, or c

```

```

<220>

```

660

<221> misc feature

<222> (866)

<223> n equals a,t,g, or c

<400> 1016

```

catttttagcc ctaaattacc tgtggctggt tcttttttatt tttttgacta ctttttatatt 60
ataaatgtgt gttactgtct tatgaattca tggcaatata gttggatagc ctggatactt 120
tgtttagatga gtatttagct gtgtctgcaa atcttaaaag ccattagcaa agaktcgtgg 180
tatttttttc tttattttta aatgtttggg caccaaacct aaaagcaaaa gattgacgaa 240
rcatgtttct cttaaggcta cttgtatttt acaatacaat attaaattat ttaatttgag 300
aaatttagtt ttgcttatat gcacttttta aatatatact attttgaaga ttccttatgt 360
aaatgcaaat ttcctagtta aaaccgaata acagagatct gaaatgactg agaaaaactt 420
ttttattaaa ggaaggaatt aatttaaggc aatttttaac tatgtagaac taattgcca 480
tgtttaatta tagcagacac gccattctaa caggtatttg ataccattgg atgcattatt 540
ctagggtttt tctttaataa aaatggaaca agttttcatt tacattccaa gctgtcagga 600
aatgaagaat attttattat ctaggatttt atctgatgta gttgcttaaa gatctgatgt 660
gctataattc catgaatcag aaataataaa atgctatcat tctggatctg aagacttttg 720
atactttttc aaaagcaaaa ttaatttcag gaacctttga taagttgttg ttataattaa 780
tctaattttg tatagttttt gnaaataaat taccatcctt cacaattagg gatgctttta 840
tccccccatc actaaattgc agttgnttga tacc

```

<210> 1017

<211> 1287

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (34)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1286)

<223> n equals a,t,g, or c

<400> 1017

```

ggcatataag gaatcttcaa aatagtatat attnaaaaag tgcataataag cacttttttaa 60
atatatacta atttgcattt acataaggaa tcttcaaaat agtatactat ttgaagattc 120
cttatgtaaa tgcaaatttc ctagttaaaa ccgaataaca gagatctgaa atgactgaga 180
aaaacttttt tattaaagga aggaattaat ttaaggcaat ttttaactat gtagaactaa 240
ttgcccattgt ttaattatag cagacacgcc attctaacag gtatttgata ccattggatg 300
cattattcta ggttttttct ttaataaaaa tggaacaagt tttcatttac attccaagct 360
gtcaggaaat gaagaatatt ttattatcta ggattttatc tgatgtagtt gcttaaagat 420
ctgatgtgct ataattccat gaatcagaaa taataaaatg ctatcattct ggatctgaag 480
acttttgata ctttttcaaa agcaaaatta atttcaggaa cctttgataa gttgttgtaa 540
taattaatct aattttgtat agtttttgta aataaattac catccttcca caattagggg 600
tgcttttatc ccccatcac taattgcagt tgtttgatac caaaataaat ttacgtagag 660
atccttaact taaaataaat taattttttc aaaaaacata aatctggaac tgttgtttct 720
atatttgata acaataacag tatattttat ttataagcca tgggtctactg atactgtatg 780
aggactttcc ttatatataa aagttgcagg gattgtgttt tattagctgc ttaattatg 840

```

661

```

ttaatttttag agagttttta aatggaaata gaggacattt atgaaacgct ggaattgcag 900
ttacaaattc tttttgttgt tgttggtcct gaacatgcct tggaataatt ctaccatttt 960
ttccccctcc ataaatcttt ctaataaagc atagaaaaag cctatatgat tttaaagtcy 1020
tctcttaagc tggtaaacag atttgagtta tgagttcatt gttattgcct tcaagatgaa 1080
aagacagtga tataatTTTT ctatttcaac ttaaaagtaa tagttaatat gctaaagtag 1140
tacagaataa actttattgc tgcttactaa ctacaaaata ctgtagatgg catctgtatg 1200
attaaacata taaagtaaaa caggtctgag ggctttgtag atgattaaag tctccacctt 1260
catgaaaaaa aaaaaaaaaa aaaatnt 1287

```

<210> 1018

<211> 462

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (425)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (461)

<223> n equals a,t,g, or c

<400> 1018

```

attgtgatga gttatccagt aacttacagc atatcagtc tttctgattc ataagataag 60
tctgttcttt aaaagtactt aactaaagta tatgctacta caataaaaag ccttsaagta 120
tgtcaatatt aatccccaaa ctacctcaag aaatcccttt aacctccaga aattatcact 180
gtataattga catacaactg aaaaatacag cacatcgaat ctagcaattt atcctattaa 240
ttgccttatt aaggtaacat ctttcaaagg gaaaaaata aatttttagta atgtttcagt 300
catcttttaa tctaaaattg tgaagacatt ctgaaacttt gcttagttta caaatataaa 360
gatttccata ctgacaatta ccaaatacca aataccttta ctggaaagaa acctagtgtg 420
aaacnattac cgggatcaag tagcctaaaa tttagtangg ng 462

```

<210> 1019

<211> 366

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> misc feature

662

<222> (81)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (167)

<223> n equals a,t,g, or c

<400> 1019

```
cactacccta ntaaggaggt catctctcct aaatttatatt caccctgact gtgggggataa 60
tcatactcct caattcaggg natactatta ttatcagtcgt gtccaaggcc tctgttggt 120
tattttatatt ttttaccctt tttatcacta ctccccatt tctccnaaa ctttcataag 180
caaaaactta attgtctggc atctgtcttt ggatatggag tgtttctttr aaaaawatta 240
agtgttggtt tacatatatg tgtgtgtgwt twaaattttc ataaatggca atatgctatg 300
aatagccttc ttttatattt ttcattaaat actctttcaa aatgaatcca tgatacagca 360
tggccc 366
```

<210> 1020

<211> 750

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (26)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (684)

<223> n equals a,t,g, or c

<400> 1020

```
ggaagaacca gcagtgaaag atggantagg aagcagaggg aagaggggaa ggatgtgttc 60
acaggagagg ccaagaggca gcgggggtgg gatgaggggt gcaaagcgtg aatttatgca 120
tttctccagt ctaggtttag ttagtatact ccctgtgaat gtcaatacct gtaaatgata 180
cttttaaatga aggagatta tccccttgaa tgtttggtt gtatcttgtc ctagaccag 240
agttgccatt ctctaaatat ctaaatact attattatt tatctctctc ttttacacac 300
acacgcgcac acacacacac agagaaatgt tgtttatgag attttgata tttcacatac 360
ttcatattct ttatatgata gatgaataat gtgtagtttt tcaaagtgtt gagttaatta 420
caatttaggt actattttcta aaaggaagat atatttgtgt tcttactttg gtggctgaga 480
ttacttaaaag gggataattt gctcccaaatt tcctaagaat ggtacaggaa ttctaagggtg 540
actaattctt atttcatttt tttatgaata cttttatctt gaaatgtgta atacaaatct 600
ggtcagagtt ctatataaaa atttatattg gaatcagact tatgtgtgtg tactttttat 660
ttgatattta ataatgccct aagnaggtta ttcaaatttt tattaagtg aaatgatttg 720
acagtcagac tttgaattta atgcatgcat 750
```

<210> 1021

<211> 1333

<212> DNA

<213> Homo sapiens

663

<220>

<221> misc feature

<222> (133)

<223> n equals a,t,g, or c

<400> 1021

```
acaaggtttt gaacgacaga ctacagctgc tgttggagtg ctgaaggctg tgcactgtgg 60
agagtggcct gatcaacccc gtttaaccaa agatgtaatt tgttttcatg ctgaagattt 120
cttagaagta gtncaacgaa tgcagttaga tttacatgaa cctccactgt cccagtgtgt 180
ccaatgggtt gatgatgcaa aactgaatca actgaggagg gaaggcattc gctatgccag 240
gattcagcta tatgataatg acattttattt tattccaagg aatgttggtc atcagttcaa 300
gacagtttca gctgtatgca gkttagcatg gmatattcgg ctcaaattat atcactcaga 360
ggaggacamt tctcagaata cagctactca tgaaacaggc acatcatcag attccacatc 420
atctgtttct ggacctcaca ctgacaacat gatttgtgct gtaagcaaac ctccttggat 480
tctgtttttt cagataaaact tcattctwaa tatgaattac agcagattaa acatgaacct 540
attgcatctg taagaatcaa ggaagaacct gtgaatgtta atattcctga aaagactaca 600
gcactgaata atatggatgg caagaatgtt aaagcaaaat tggatcatgt tcaatttgca 660
gaatttaaga ttgacatgga ttctaaattt gaaaatagca acaaagattt aaaggaagaa 720
ttgtgccctg gaaatctaag tctagttgat acaaggcaac acagttcagc acattcaaat 780
caagataaaa aagacgatga cattttgtgc taaatttgca tataccatct aaaatccttt 840
tttaaaaaaa tttaattgtaa taaagattca tgaattctga aagcaagcca aggacttgct 900
cctatgtctg ttacaaaaca tagtttatgt agctttgtaa cattcctcag tgccctgtcca 960
taactgtgaa gtattaagca cttagggcca gatgcactgt aaacattgca ggtttaaaca 1020
taaaggagtc tttaaaaaaa aatcattttac gttggaattt taggttttag aatagagctg 1080
acattaacat atatataat atataaatat atataatata tttgtaatat gagccagaat 1140
tctttttcaa caattttaag cttttccata gagcttattt atatcctttt ttttcatttt 1200
aaatgtgtca gcactgtagt gtaaataagct tttaaatata ttttttagtgt gatttatact 1260
gaaatgtgag ccacttaata aaggttcata tgttcatatt aaaaaaaaaa aaaaaaaaaa 1320
aaaaaaaaaa aaa 1333
```

<210> 1022

<211> 565

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (529)

<223> n equals a,t,g, or c

<400> 1022

```
ggcagagcta aaataatgac tacctaacac ctgggtaaat atgtctccag accttttcaa 60
tgtgcatgtg tacataagct tgtatttttc ataaaaaagg aatcctgata catattttat 120
aacatacttt ttttcattta acatactgag gcatttataa ttttcagttt gtttttattg 180
tagcaaacat gtagtaagggt tttgggtggc tttcagtgga taaaaggacg gtatccaaaag 240
ggggggtttga atttcccact tctgggaaca gactcctatt aaagttccag gggactatct 300
gcagtggsgt gctgaacaaa agatatcagc agtgctcatc attgtagtaa cttgggtaac 360
tcctccaaat actttgtgtg aactatcaga aatctttggg aattttttta tgtacattct 420
tgaaattctg aatgtacaaa tatggagtgc catttaaagt ttttttttta attttaagtc 480
ttgcatccat taatgtattc tcttaaactt ttatccttat atatttatna gctctgaaat 540
```

664

cttggggccac taggcacttt ggggg

565

<210> 1023

<211> 525

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (479)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (522)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (524)

<223> n equals a,t,g, or c

<400> 1023

```

ctggcagtct gtgcaccgga gttggctcct ttccctctta aacttgtgca agagatcgct 60
gagcgatgaa ggtagaatta tggctcctcct tgcccttgcc ttcccttttt gtgatctcaa 120
agcatcctcc ctccgccctc attccatggc cccagttccc tactcccaca gctgtctgct 180
gaaactgcca acattactca attgtttctg gggggaggaa cttttttttt tgaaacaaaa 240
tagatatatg aaacagtaca cgggaattaa cacgaatatt taaggtaaaa catgaccttg 300
aagattatga aatccatctt attttggccc agaacggggg cattgggctc cttgggccat 360
aggggagctg gggaggacag ggtgaagagt tagctctaag cctctgctt ggagatgctg 420
taaatacaga acgcaaaatc accttcgaag ttaaagacgc gaaagttctt cttttctcng 480
gcccttcttc ccttcccccc ggccatttcc ttccagtacc antng 525

```

<210> 1024

<211> 908

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (132)

<223> n equals a,t,g, or c

<400> 1024

```

gtgatggact atcgcgacgt agatcaaata agtataaaat gcctcagttt tgtccttttt 60
agtgaacat aagtactggg ataccctatc ctaattaggg atcatttgaa agcttttccc 120
aaattgaggc cntgctgcct tctccccatc ccttgggggt ttaaagtgat ttcaaactgc 180
aacctagttt tagaaccact gttctgggta gttgggatac tgaaggcata ttgttaatta 240
ttctacttgt atgttttgct aattctaaga taagcatttt tccagaaacc aggatgtaga 300
atccagytgc catygacatc ttaacatttt aggaaacaac tttaaaatga tatactatct 360
atctatctat ctgtagcaty ttaaaggtaa tgaaattaat gtggcagtag gtcttttaag 420

```

665

```

cttctgccta catccatatt gagtatagtt gttgtcttct aaaataatta attgattttt 480
ggtgagataa ccagattcat attttaagcc ttttgtaatg gccccgtggt acctggagtc 540
aaggttcaga agtaaaaagt tccttaaggt atcaataaca aaaatttgta ttaatagttc 600
agtccataag cagtgttgct gagattatgt ttcaccagca tttacaagct gtatgttaaa 660
tgctgccata aagaggtctc tgaagccgta gggcacaccc aaggcagggc tgaraagtac 720
ctagtagtgt gcmccmcccr aaaaccatgg atggcagcag ccacatytc agcttaccca 780
ttcactgccm cagtytacag cttaagacmc ttaactacaa ggtaaaagaa aaggrccaag 840
taaatacaaa aagtttytta ttaaaaaact tggaagccca aaaaaaaaaa aaaaaaaaaa 900
aaaaaaaaa                                     908

```

<210> 1025

<211> 421

<212> DNA

<213> Homo sapiens

<400> 1025

```

gggtacggta attcccaagg taagctcttg atctagatct tggggcctat agaaatattt 60
ttaagggaca tcaaagggtc ttgggaaatc tgcctagtga gggtaagcaa gatgaaagag 120
ggaaagttgt tatggttaat agtttgtag gaactccctt ccaagaggca agcttttgtc 180
atctctatgg aatttgaggg cagttggaca atttgcaagg atattctcac ctgttcatta 240
aggtcccttt cctccagtaa gagaatggct agggctctgt ggataatctt aagcacctac 300
tggtgctttt ttgttgtttt gcttatgcaa gtgatcattt attttttagg agtgatttgg 360
aggaagagta tgaggcaagc ttgtttttct ccagtgtaat tgatggtcac catgcatggt 420
t                                             421

```

<210> 1026

<211> 887

<212> DNA

<213> Homo sapiens

<400> 1026

```

gattgcgtaa cagaactttc tgtacatcac agaaacaaca ggcaaacaat ggaggattta 60
atttcaactgt ggcagtatga tcacctcacg gctacctatc ttctgcttct agccaagaag 120
gctcggggaa aaccagttcg tttaaggctt tcttcyttct cctgtggaca agccagtgtc 180
acccatttca cagacatcaa gtcaaataat tggagtctgg aagatgtgac cgcaagtgat 240
aaaaattatg tggcgggatt aatagactat gattggtgtg aagatgattt atcaacaggt 300
gctgctactc cccgaacatc acagtttacc aagtactgga cagaatcaaa tgggggtggaa 360
tctaaatcat taactccagc cttatgcaga acacctgcaa ataaattaaa gaacaaagaa 420
aatgtatata ctccctaagtc tgctgtaaag aatgaagagt actttatgtt tcctgagcca 480
aagactccag ttaataagaa ccagcataag agagaaatac tcactacgcc aaatcgttac 540
actacaccct caaaagctag aaaccagtgc ctgaaagaaa ctccaattaa aataccagta 600
aattcaacag gaacagacaa gttaatgaca ggtgtcatta gccctgagag gcggtgcsct 660
cagtggaaat ggatctcaac caagcacata tggaggagac tccaaaaaga aaggagacca 720
aagtgtttgg gagccttgaa agggggtttg ataaggttat cactgtgctc accaggagca 780
aaaggaaggg ttctgccaga gacgggcccc gaagactaaa gcttcactat aatgtgacta 840
caactwgrtt agtggattcc cggttcaact gtttgatgg aattaat                                     887

```

<210> 1027

<211> 461

<212> DNA

<213> Homo sapiens

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MISSING AT THE TIME OF PUBLICATION

683

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (458)

<223> n equals a,t,g, or c

<400> 1053

```
gctcgaactg tatggctgca tttaccacctc tttgcacctc atgtccatga atatctaagt 60
tcaagagaga tgagctcagt tcctaggtca tgccccagtc tgtagtgaca tgctcctgta 120
tgtaacggaa atggccatgt ctacaggagg taaaatcaca ccaacctggg aagaggaaaa 180
gccagtggag ggcagtacag cagggggcagc cctctccact gaargcagtt gtttgccctga 240
ctccatggca tttgtgtcca ttagagtcta raagargtgt tggcaaactt tctacaaagg 300
gccaratakt aaatatTTTT ggcttttgaa rctaratggt ctctgtcata accactcmac 360
tcgcgccattg tagtgcaaaa gcaaccatag accatatgta tacnaatgga tatgggcctg 420
gtccaataaa aactttttatt tacaataaagc aaggcnantg ggccca 466
```

<210> 1054

<211> 557

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (6)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (86)

<223> n equals a,t,g, or c

<400> 1054

```
ttcggntaaa aaaaaaaaaa aggactgtgt aagggttactt aactcctctg gggcttgtcc 60
atcttatctg caaaaatggg gatccnctag cgtgtatctc gctgagcggg acagatgaac 120
tatgtaaagc atttggccca atgcctggca ctgctaagca tgcaataaat ggaagttact 180
atcataatgt gtaacacata taattatgac aattatattt ccaagatatt ctgggatctt 240
tacagtttca taattttgct ctttttacta tacaacactc cttttattga aacaaatata 300
gattttggag tcagacagac ctagtctgga tttgaattcc agctctcctt cttaccagcc 360
tgggggccatg gagaatgttg tccatttccc tgagcctcag tgttcttctc tgtaaaatgt 420
ggatgatacc tgactcccag gcattttgcc aggattacat gggattccta cacagtgcaa 480
tgtctagtga taatataaat actaaaagca acttggttaa tgtataaata aatgtgattt 540
atttttgctc cttttaa 557
```

<210> 1055

<211> 2872

<212> DNA

<213> Homo sapiens

<400> 1055

```
catgcctgat ggagccactt tggctattgg atcttcccg gggaaaatat atcaatatga 60
```

684

```

ttaaagaatg ttgaaatcac cagttaagac catcagtgc cacaagacat ctgtgcagtg 120
tatarcattt cagtactcca ctgttcttac taagtcaagt ttaaataaag gctgttcaaa 180
taagcccaca acagtgaaca aacgaatggt taatgtgaat gctgctagtg gaggagtcca 240
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tatgacatca gctatgggga aaggaacagt tgctgttcaa gaaaaagcag gtttgccctcg 360
aagcataaac acagacactt tatctaagga aacagacagt ggaaaaaatc aggattttctc 420
cagctttgat gatactggga aaagtagttt argtgacatg ttctcaccta tcagagatga 480
tgctgtagtt aacaagggaa gtgatgagtc cataggcaaa ggagatggct ttgactttct 540
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cctgttgctt ttttaaaaaa ataaatacac ataatgtata ttaaaagagg tgggatgaaa 2760
taattttagt aattatgtgt acagatgaaa catttttgtc atggaattta aaagctaagt 2820
aagtataaaa aataaaatgt tatatgcaaa aaataaaaaa aaaaaaaaaa aa 2872

```

<210> 1056

<211> 552

<212> DNA

685

<213> Homo sapiens

<400> 1056

```

gtagactaga gaaggcattt ggagatcgtt ttagtaaatt atcttaacca atctaaaaat 60
acttctgaac tgtcaaccag aacacagaaa tcctgtatta cttgctgtag tctggacagt 120
ttaggggaac gtggcaccga tctcatcttc accgtcgatc agtgggtctc tgacttggtc 180
cagtggccgc acaccagcta gtgaagaaaa ccacagactc caactgcact gtgtacgctc 240
tggtgtcctc atttccaaaa aaaaaaaaaa aaaatctcca agatagagtt taagaaatct 300
catttgagtt gccctgctaa tatttgcagc tcgctgggtg gtgccgtgga ggccagtact 360
caccgtcagg ctgtggcagg tacagtgaag ggaaaaactc catgagagaa cgggtggaaag 420
ttcacctgag agtgaaacgc atgccagtta gagtggctga aaaatagcat ggacaacacc 480
agctagtga gaaaaccaca gactccaact gcactgtgta cgctctggtg tcctcatttc 540
caaaaaaaaa aa                                     552

```

<210> 1057

<211> 871

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (754)

<223> n equals a,t,g, or c

<400> 1057

```

cccacgcgtc cgcagagaag tacagagtct taaggaacaa catcaaaaag aaatatcaga 60
actaaatgag acatttttgt cagattcaga aaaagaaaaa ttaacattaa tgtttgaaat 120
acaggggtctt aaggaacagt gtgaaaacct acagcaagaa aagcaagaag caattttaaa 180
ttatgagagt ttacgagaga ttatggaaat tttaaaaca gaactggggg aatctgctgg 240
aaaaataagt caagagttcg aatcaatgaa gcaacagcaa gcattctgatg ttcattgaact 300
gcagcagaag ctccagaactg cttttactga aaaagatgcc cttctcgaaa ctgtgaatcg 360
cctccaggga gaaaatgaaa agttactatc tcaacaagaa ttggtaccag aacttgaaaa 420
taccataaag aaccttcaag aaaagaatgg agtatactta cttagtctca gtcaaagaga 480
taccatgtta aaagaattag aaggaaagat aaattctctt actgaggaaa aagatgattt 540
tataaataaa ctgaaaaatt cccatgaaga aatggataat ttccataaga aatgtgaaag 600
ggaagaaaga ttgattcttg aacttgggaa gaaagtagag caaacaatcc agtacaacag 660
tgaactagaa caaaaggtaa atgaattaac aggaggacta gaggagactt taaaagaaaa 720
ggatcaaaat gacaaaaaac tagaaaaact tatnggttca aatgaaagtt ctctctgaag 780
acaaagaagt attgtcagct gaagtgaagt ctctttatga ggaaaaaatw aactcagttc 840
agaaaaaaaa ccggttgagt agggatttgg a                                     871

```

<210> 1058

<211> 544

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (365)

<223> n equals a,t,g, or c

686

<220>
 <221> misc feature
 <222> (395)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (408)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (434)
 <223> n equals a,t,g, or c

<400> 1058
 gctcgaactc ttgagttcaa gcaatccacc tgcctccacc tcccaaagtg ctgggactac 60
 aggcgtgaat cagtgcacct ggcctgatag tcacctttga agagttgtga tataccattt 120
 tactagataa atggtaatat gccattataa tgcaactcaa tgtagatgag tctggaagag 180
 gctgggctca aatgggtccca catgatccag ggatagaccc agagtttcca gaggaatggg 240
 tggataacac ttattcaaat aagaatccct tcttactctt ctcaataaaa cttttgtcaa 300
 agataatcga cagactgtag ctatactctg tgggtgattgt ctggagttac atggtgctga 360
 ttganggtga attcatatgc tttagaaact agaancgcaa gtgttcangt tgctaattctg 420
 ctttggaat gaanggacca gtgaagacct tcaactcgcaa tgaargtgtw cttttctatg 480
 caattaggct cttggctacc tgccagaaaa accagatgtt ttcctactga agcaatttca 540
 aaag 544

<210> 1059
 <211> 597
 <212> DNA
 <213> Homo sapiens

<400> 1059
 tctgtgccat gagaaactga gcctactaga agattttcaa gacttcagag attcctgcag 60
 ttcattctgag agaactgatg gaagatattc caaatacagg gttcgcagaa attctcttca 120
 gcatcaccaa gatgacacca agtacagAAC caaaagtttc aaagggtgaca gaacctttct 180
 ggaagggttac cacactcgtg ggtagatca ctcatcctct tggcaggatc acagtcgctt 240
 cctgtctagt ccaagatttt catacgtgaa ctcatctacc aaaagaactg ttgctccaga 300
 ttcagcttca aacaaggaag atgccacaat gaatggaaca agttcacaac ccaaaaaaga 360
 ggaatatggg agctaaaaaa gcaaatgtaa tttgttattt tacatgagta tgttacaaat 420
 aataacatct ctattcttac agcaatttgg cccagattat ctaacagaca tacctgcagc 480
 tttggctctt tgggtattgcc aaacattgac aaaagtgaca atactgttgg tccttgtgaa 540
 tggtaaacca atccaaataa tatcagatca tgaatgatgt gcagctaatt tatttgc 597

<210> 1060
 <211> 425
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature

687

<222> (96)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (334)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (344)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (380)
 <223> n equals a,t,g, or c

<400> 1060
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 gaggcattcc cctctggttg tacagcgaca gctggngaga gaaggcagca gccctgaagg 120
 cagtaccagg aggacgatcg aggggcagtc tccggagccg gtgttcggag atgctgatgt 180
 ggatgtgtct gcagttcagg cgaagttggg agccctggaa ctgaaccaga gggatgctgc 240
 agctgaaact gagctcaggg tgcacccacc ctgccagcgg cactgcccag agccgcgagt 300
 gcacccgaag aaaacaaagc caccagcaaa gctncccaag gtancaactc aaaaaccccc 360
 atcttttagcc ctttttccan cgtcaagccc ctgcggaaat ctgctacttg ccaggaaatt 420
 tggga 425

<210> 1061
 <211> 593
 <212> DNA
 <213> Homo sapiens

<400> 1061
 ggttctagat cgcgagcggc cgtccctttt tttttttttt tcagttcaag cgcaattttg 60
 ccaccaattt gattacgaaa aatcttttcgg gcttcaggag agctttggag cctggaaatt 120
 gcagatgagg gatggggggc tgcactgttt cgcggtggg gagagggagc tcatccgaag 180
 tcttccgaca gaggtgggag tcatgcccga cgtlgagcgg agtgggtctc ctcgagccca 240
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 gcttcaacgat ctccctaccg gccggggccgc gtacctctg gatggcctct tagacgttct 360
 ctgagtcgct gcgcgacagg ggcagcaggc acaccagga gcccgctacg ctgcaggcct 420
 tgaagctgcc gctgcttccg aggttgccgg cgggagggcg gacgacggcg cgcgtcagggt 480
 cgtccaggga ctgcgcgggc cgcacgggag ccgtgggccc caggtagagg caggcgggca 540
 ggccggtgta ctccaagggg tgctccacca gtacgtacac gtccccctcc aca 593

<210> 1062
 <211> 332
 <212> DNA
 <213> Homo sapiens

<400> 1062

688

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ggcagagctt tattaaagta cagtattata agaaatcaca ggcgtgagca cctgcgtcca 60
gccaaaaagc tattttttgaa tgtgatctgt gtgaaaataa ttccctatgg tatgacatat 120
gataggcagg gatgatgtat ctcakaaatc atactcctgt cttgatatcc catcaaatat 180
caatgtttac atttagcgtt tggatgtctg gcaggacatt aaaaaattgg cagagctgtc 240
ccacacatgc agaacatcta tagcgttctt gcctcctcaa aggtaatctt catgtgacaa 300
caacaacaac aaaaaaaaaa aaaaaaaaaa tt 332

```

<210> 1063

<211> 2340

<212> DNA

<213> Homo sapiens

<400> 1063

```

aggcgctgcg gagacgcgta gaggagcgcg cccccgggcc gmtgccgmcc ctggcccgtg 60
ccgtcacccc gcttctccgc gcctcgggcg gtaccacagc agtcccagc gccgcgtac 120
cgcgctgacc ggccctccag acgcctcccg gtaccgggga cccagcccg gccgctcgcc 180
cgcagcccg cggccgcaca cgtccccgga gccgggcta gggcgggcg cagggcggt 240
cggcgagtc aggctgggt ctgtagcgtc cccatggcg cggcggtg gcgggacggc 300
tccggccagg agaagtaccg gctcgtggtg gtcggcgggg gcggcgtggg caagtcggcg 360
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tcttacacaa agcagtgtgt gatagatgac agagcagccc ggctagatat tttggataca 480
gcaggacaag aagagtttgg agccatgaga gaacagtata tgaggactgg cgaaggcttc 540
ctgttggctt tttcagtcac agatagaggc agttttgaag aaatctataa gtttcaaaga 600
cagattctca gagtaaagga tcgtgatgag ttcccaatga ttttaattgg taataaagca 660
gatctggatc atcaaagaca ggtaacacag gaagaaggac aacagttagc acggcagctt 720
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gtgtacaaca gtcccatgaa gtttatagag catacccttg tatagcttca ggtgctagaa 2280

```

689

ttaaaattga tctgttatca caaaaaaaaa aaaaaaaaaa aaaggctctt taattaggcg 2340

<210> 1064

<211> 1647

<212> DNA

<213> Homo sapiens

<220>

<221> misc feature

<222> (262)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1609)

<223> n equals a,t,g, or c

<220>

<221> misc feature

<222> (1629)

<223> n equals a,t,g, or c

<400> 1064

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cccgggtgctg cacagcctgc agagccgcgc cggagccccg ctcccgggtgc cccgggggtcc 180
cagtgcagac ctgctggagg acctgtccga gagccgcgag tgcgtgaact gcgggtccat 240
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ttgcgttgca gcaatcagtg ttaaatcatt tgcataagat ttaacagcat tttttataat 1560
gaatgtaaac attttaactt aaggctacta aaataattta aaagaaaang ttaacttaga 1620
cattcttngn cttctttttac aactaca 1647

```

690

<210> 1065
<211> 252
<212> DNA
<213> Homo sapiens

<400> 1065
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tactgcgtga gaccattttc ccactgtggg catgttttcc ttgagtcaat tttccaggta 120
ctctatatattc agcactctcc tccttccttt tctttaattc catttttagcc acacacaggg 180
gaatgggaaa gggcctgatt aaatcaacta tttttttttt tttaaaattt taatcttttg 240
ggggcccagg aa 252

<210> 1066
<211> 1095
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature
<222> (69)
<223> n equals a,t,g, or c

<400> 1066
tccccgcgc sttgcccgat tcattaatcc agytgccacg acagggtttcc cgactgaaac 60
cggccagtna gcscaacgca attaatgtga gttagctcac tcattaggca ccccgaggctt 120
tacactttat gcttccgggt cgtatgttgt gtgaaattgt gascggatac caatttcaca 180
caggaamcag ctatgaccat gattacgcca agctctaata cgactcacta taggaaagct 240
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ttcagtttat tatctgtaaa ttgtacagtt ttctttttga aagttttaat attgtcttcc 360
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gttggacata ttatttagac ttagtcatac aaagaaaactt agctcttttt tcatctcaca 780
gtaaagccta tttccccagg aaaaaataaa atgcctttga atgaaaattc tgaaattgta 840
aatgtctatt ttaatatcca cctatgaaag aatctgtgaa tatatgtaaa tacgtttaat 900
aaattttatt ggtcatgtta aatcattgta aaactttttt acattgctta atgttttaag 960
cttaatagcc tttgcacttt taaaataaaa accaagtatg caaatcaaag atatttggtta 1020
gtcaaaataa gtaaaagaaa tataggaata ttccagtcaa aaaaaaaaaa aaaaaaaaaa 1080
aaaaagggcg gccgc 1095

<210> 1067
<211> 661
<212> DNA
<213> Homo sapiens

<220>
<221> misc feature

691

<222> (619)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (657)
 <223> n equals a,t,g, or c

<220>
 <221> misc feature
 <222> (658)
 <223> n equals a,t,g, or c

<400> 1067
 cagccctaca ggcaacttga acggagagcg ctttgatcac tcaccagccc gggaaggcaa 60
 gccccagtca ggcggaaggt agctggctgc ggggcggggc gactggcggg cggcgggagg 120
 cgccaaccgg cacagacgac tcccagctgg ccgagggcgg gaagggggca ggcagggaag 180
 cggccccgcc ttctgtctgc cccttcgccc taytctgtca cctccgytgg aaggagtgga 240
 acccakactt gctggtctga tccatgcaca aggcggggct gctaggcctc tgtgccccgg 300
 ctttgaattc ggtgcggatg gccagctccg ggatgacccg ccgggacccg ctcgcaaata 360
 aggttgccct ggtaacggcc tccaccgacg ggatcggtct cgccatcgcc cggcgtttgg 420
 cccaggacgg ggcccatgtg gtcgtcagca gccggaagca gcagaatgtg gaccaggcgg 480
 tggccacgct gcagggggag gggctgagcg tgacgggcac gtgtgccatg tggggaaggc 540
 ggaggaccgg gagcggctgg tggccacggt garcttgcaak ggaaatgggc acagagccar 600
 gaagtggaaa aggagccanc tgamctkctt cctgctttcc taagacagca acacatnnga 660
 a 661

<210> 1068
 <211> 164
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (146)
 <223> n equals a,t,g, or c

<400> 1068
 attccttata catgttaact aactctaagg ggaaagagat agatcataaa ttacatgtta 60
 acgttgaggg gaaattgata gatcataaat taaaatataa tttaatatgt tatatatattc 120
 tattgattta tataacctatg aaatanTTTT tatattgaaa ggta 164

<210> 1069
 <211> 1004
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc feature
 <222> (37)
 <223> n equals a,t,g, or c